



November 14, 2014

Ms. Nicole Hart
Engineering Geologist 1
New York State Department of Environmental Conservation (NYSDEC)
Region 1
SUNY at Stony Brook
50 Circle Rd.
Stony Brook, NY 11790-3409

Re: ***Subsurface Investigation Summary Report***
NYSDEC Spill # 10-07938
US Petroleum Station
2664 Rte 112
Medford, NY 11763

Dear Ms. Hart:

In October 2014, Longshore Environmental Inc. (Longshore) performed a subsurface investigation at the above referenced site. The purpose of the subsurface investigation was to evaluate environmental conditions beneath the site in association with NYSDEC spill number 10-07938.

Soil Borings and Ground-Water Sampling

To investigate soil and ground-water quality in the area of the underground storage tanks (USTs) and product dispensers, Longshore completed (5) soil borings. Continuous soil sampling was performed to various completion depths at each location (SBs 1-5). Soils encountered consisted mainly of well-sorted fine to coarse sand and little to trace amounts of fine to medium gravel. Soil samples were screened in the field utilizing a photo-ionization detector and readings ranged from below detection limits of the instrument to greater than 934 parts per million by volume (see attached boring logs). Soil samples from exhibiting the highest PID reading from each boring were retained for laboratory analysis.

Following soil sampling activities, 1-in diameter temporary monitoring wells were installed at each soil boring location (GW's 1-5). Soil boring logs and well installation details are attached. In addition to the temporary monitoring wells, (1) existing ground-water monitoring well (MW-A) was identified on-site. Temporary monitoring well locations and the existing ground-water monitoring well are depicted on the attached site plan (Figure 1). Depth to water measured in the temporary monitoring wells ranged from 46.06 to 48.50 ft bg (see attached boring logs). Ground-water samples were retained from MW-A & GW's 1-5 for laboratory analysis.

Laboratory Results – Soil and Ground Water

Soil samples retained were analyzed for the NYSDEC Final Commissioner Policy 51 (CP-51) list for volatile organic compounds (VOCs) modified to include fuel oxygenates. Results indicated that the samples retained from SB-4 exhibited concentrations of multiple VOCs above NYSDEC Soil Clean-up Objectives (SCO's) for the Protection of Ground-Water listed in New York Codes, Rules and Regulations (NYCRR) 375-6.8 and Final Commissioner Policy, CP-51. Results also indicated that the sample retained from SB-3 exhibited a concentration of 1,2,4-Trimethylbenzene above NYSDEC SCO's. Laboratory reports are attached and results are summarized in Table 1.

Subsurface Investigation Summary Report

NYSDEC Spill # 10-07938

US Petroleum Station

2664 Rte 112

Medford, NY 11763

November 2014

Ground-water samples retained were analyzed for the NYSDEC CP-51 list for VOCs modified to include fuel oxygenates. Results indicated that samples collected from MW-A and GW's 3-5 exhibited concentrations of multiple VOCs above NYSDEC Ground-Water Quality Standards (GWQS's) listed in NYSDEC Regulations Chapter X, Article II, Part 703.5, Tables 1-3 for Groundwater Class GA. Laboratory reports are attached and results are summarized in Table 2.

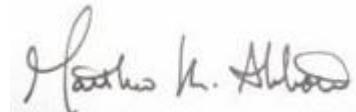
Conclusions and Recommendations

In conclusion, soils and ground-water beneath the site exhibit concentrations of gasoline-related VOCs above NYSDEC standards, specifically in the area of down-gradient of the USTs and product dispensers on-site.

Based on the results of the subsurface investigation, Longshore recommends monitoring well installation at temporary well locations GW's 1, 3, 4 and 5. Following installation of the monitoring well network (which will include existing MW-A and any other existing monitoring wells discovered on-site), Longshore recommends the initiation of a quarterly ground-water monitoring program.

If you have any questions or concerns, please do not hesitate to contact us.

Sincerely,
Longshore Environmental Inc.



Matthew K. Abbott
Project Manager

cc: Ezgi Kiriscioglu, Genesis Petroleum Inc.
Matthew Schneck, Longshore Environmental

Attachments:

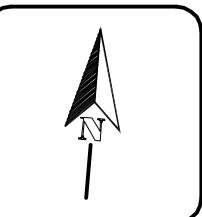
Figure 1 – Site Plan

Data Tables

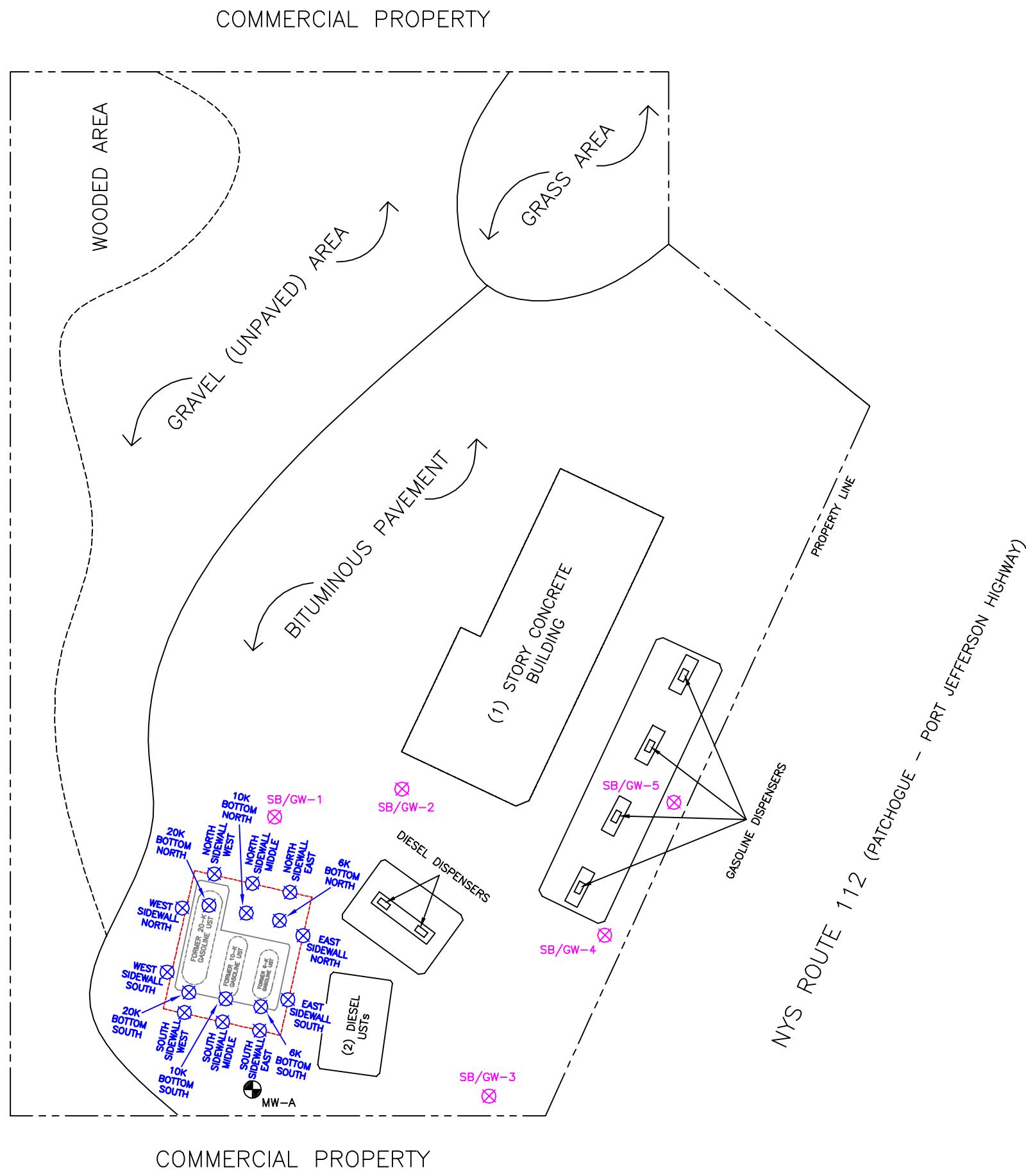
Boring Logs and Well Construction Details

Laboratory Reports





RESIDENTIAL PROPERTIES



1337 LINCOLN AVE - UNIT 9
HOLBROOK, NY 11741
PHONE: 631-472-1732
FAX: 631-472-0872
www.longshoreenv.com

SITE NAME AND ADDRESS
GENESIS PETROLEUM INC
US PETROLEUM STATION
2664 RTE 112
MEDFORD, NY 11763

FIGURE TITLE
SUBSURFACE INVESTIGATION
SITE PLAN

LEGEND

- ⊗ = POST-EXCAVATION SAMPLING LOCATION
- = APPROXIMATE EXTENT OF EXCAVATION
- ⊗ = SAMPLING LOCATIONS
- = MONITORING WELL LOCATION

SCALE: 1 INCH = 40 FEET

DISTRICT = 0200
SECTION = 734
BLOCK = 3
LOT = 2.3 & 2.4

*ALL SITE FEATURES ARE APPROXIMATE

DRAWN BY: MA
DATE: NOVEMBER 23, 2010

REVISED BY: MA
DATE: NOVEMBER 10, 2014

0 20 40

FIGURE

1

Table 1
Summary of Soil Sampling Results
Compared to NYSDEC Recommended Soil Cleanup Objectives
Analyzed by EPA Method 8260 (NYSDEC CP-51 List)

Compound	SB-1	SB-2	SB-3	SB-4	SB-5	NYSDEC Soil Cleanup Objectives for Protection of Ground-Water* ($\mu\text{g}/\text{kg}$)
	20 to 25-ft	20 to 25-ft	45 to 50-ft	45 to 50-ft	40 to 45-ft	
	10/27/2014	10/27/2014	10/27/2014	10/28/2014	10/28/2014	
	$\mu\text{g}/\text{kg}$	$\mu\text{g}/\text{kg}$	$\mu\text{g}/\text{kg}$	$\mu\text{g}/\text{kg}$	$\mu\text{g}/\text{kg}$	
1,2,4-Trimethylbenzene	< 5.0	< 5.6	5,900	9,100	< 5.2	3,600
1,3,5- Trimethylbenzene	< 5.0	< 5.6	2,700	6,200	< 5.2	8,400
4-Isopropyltoluene	< 5.0	< 5.6	150	130	< 5.2	10,000
Benzene	< 5.0	< 5.6	< 4.8	43	< 5.2	60
Diisopropyl Ether (DIPE)	< 5.0	< 5.6	< 4.8	< 4.2	< 5.2	-
Ethanol	< 20	< 22	< 19	< 17	< 21	-
Ethylbenzene	< 5.0	< 5.6	< 4.8	49	< 5.2	1,000
Isopropylbenzene	< 5.0	< 5.6	< 4.8	1,400	< 5.2	2,300
m- & p- Xylenes	< 9.9	< 11	< 9.6	440	< 10	-
Methyl Tert Butyl Ether (MTBE)	< 5.0	< 5.6	< 4.8	< 4.2	< 5.2	930
n-Butylbenzene	< 5.0	< 5.6	750	960	< 5.2	12,000
n-Propylbenzene	< 5.0	< 5.6	44	4,000	< 5.2	3,900
Naphthalene	< 5.0	< 5.6	35	< 110	< 5.2	12,000
o-Xylene	< 5.0	< 5.6	< 4.8	30	< 5.2	-
sec-Butylbenzene	< 5.0	< 5.6	350	450	< 5.2	11,000
t-Butyl Alcohol (TBA)	< 5.0	< 5.6	< 4.8	< 4.2	< 5.2	-
tert-Butylbenzene	< 5.0	< 5.6	< 4.8	< 4.2	< 5.2	5,900
Toluene	< 5.0	< 5.6	< 4.8	< 4.2	< 5.2	700
tert-Amyl Alcohol (TAA)	< 5.0	< 5.6	< 4.8	< 4.2	< 5.2	-
ethyl-tert-butyl ether (ETBE)	< 5.0	< 5.6	< 4.8	< 4.2	< 5.2	-
tert-amyl methyl ether (TAME)	< 5.0	< 5.6	< 4.8	< 4.2	< 5.2	-
Xylenes, total	< 15	< 17	< 14	470	< 17	260

Shaded Cells Indicate Compounds Detected Above Cleanup Objectives

*NYSDEC Soil Cleanup Standards taken from New York Codes, Rules and Regulations (NYCRR) 375-6.8 and Final Commissioner Policy, CP-51
NA = No standard listed in NYCRR 375-6.8 or CP-51



Table 2
Summary of Ground-Water Sampling Results
Compared to NYSDEC Ground-Water Standards
Analyzed by EPA Methods 8260 & 8270 (NYSDEC CP-51 List)

Compound	GW-1	GW-2	GW-3	GW-4	GW-5	MW-A	NYSDEC Ground-Water Quality Standards (µg/l)*
	45 to 55-ft	45 to 55-ft	45 to 55-ft	42 to 52-ft	45 to 55-ft	-	
	10/27/2014	10/27/2014	10/27/2014	10/28/2014	10/28/2014	10/27/2014	
	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
1,2,4-Trimethylbenzene	< 2.0	< 2.0	820	990	6.9	260	5
1,3,5- Trimethylbenzene	< 2.0	< 2.0	250	270	< 2.0	71	5
4-Isopropyltoluene	< 2.0	< 2.0	16	13	6.7	< 2.0	5
Benzene	< 2.0	< 2.0	< 2.0	12	15	29	1
Diisopropyl Ether (DIPE)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	-
Ethanol	220	< 10	< 10	< 10	< 10	< 10	-
Ethylbenzene	< 2.0	< 2.0	10	84	< 2.0	600	5
Isopropylbenzene	< 2.0	< 2.0	70	120	< 2.0	17	5
m- & -p Xylenes	< 4.0	4.0	46	260	4.6	1,600	-
Methyl Tert Butyl Ether (MTBE)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	10
n-Butylbenzene	< 2.0	< 2.0	66	70	86	14	5
n-Propylbenzene	< 2.0	< 2.0	160	190	< 2.0	42	5
Naphthalene	< 2.0	< 2.0	9.4	49	< 2.0	47	10
o-Xylene	< 2.0	< 2.0	6.7	46	< 2.0	660	-
sec-Butylbenzene	< 2.0	< 2.0	35	35	22	< 2.0	5
t-Butyl Alcohol (TBA)	< 10	< 10	< 10	< 10	< 10	< 10	-
tert-Butylbenzene	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	5
Toluene	2.5	3.3	4.8	6.7	17	1,900	5
ethy-tert-butyl ether (ETBE)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	-
tert-amyl methyl ether (TAME)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	-
Xylenes, total	< 6.0	4.0	53	306	4.6	2,260	5

Shaded Cells Indicate Compounds Detected Above
NYSDEC Ground-Water Quality Standards
*NYSDEC Ground-Water Quality Standards
taken from 6 NYCRR Chapter X, Parts 700-706



BORING LOG AND WELL CONSTRUCTION DETAILS

Location ID: SB/GW-1 (page 1 of 2)

Site Location:	US Petroleum Gas Station 2664 NYS Route 112, Medford NY	Longshore Environmental, Inc. 1337 Lincoln Ave - Unit 9 Holbrook, NY 11741 Phone: (631) 472-1732 Fax: (631) 472-0872 www.longshoreenv.com
Client: Genesis Petroleum Inc.	Client # : M2664.112	
Total Boring Depth: 55-ft	Date(s): 10/27/2014	
Top of Casing Elevation: -	Logged By: Matthew Abbott	
Depth to Water (from TOC): 48.5-ft	Contractor: Longshore Env.	
Well Diameter: 1-in	Method: Direct-Push	

Depth Below Grade (ft.)	Well Construction Diagram	Blows / 6 in.	Recovery (in.)	Headspace (ppm)	Sample Interval (ft.)	Graphic Log	USCS Soil Group	Soil Description
1								
3		NA	27	< 1.0	0 - 5		SW	5-in asphalt and road base material, 10-in dark brown fine sand, trace concrete and gravel (fill), 12-in tan fine to medium sand, no odor, dry
5								
7		NA	29	2.0	5 - 10			light brown medium sand, little fine gravel, trace coarse sand, no odor, dry
9								
11		NA	31	2.0	10 - 15		SP	light brown medium to coarse sand, little fine gravel, trace coarse sand, no odor, dry
13								
15								
17		NA	26	3.4	15 - 20			light brown medium to coarse sand, trace fine gravel, no odor, dry
19								
21								
23		NA	27	5.5	20 - 25		SW	light brown fine to medium sand, trace fine gravel, no odor, dry
25								
27		NA	10	1.3	25 - 30			light brown fine to medium sand, no odor, dry
29								

continued on page 2

Well Construction Details

Surface Seal: asphalt patch

Screen 1-in sch. 40 PVC 0.020 slot screen (45 Material: to 55-ft)

Well Head Seal: 1-in compression plug

Gravel Pack: native material

Casing Material: 1-in sch. 40 PVC riser (0 to 45-ft)

Borehole Seal: bentonite chips (35 to 37-ft)

Notes

NM = Not Measured

NA = Not Applicable

NS = Not Sampled

ND = Not Detected

BORING LOG AND WELL CONSTRUCTION DETAILS

Location ID: SB/GW-1 (page 2 of 2)

Site Location: US Petroleum Gas Station 2664 NYS Route 112, Medford NY							Longshore Environmental, Inc. 1337 Lincoln Ave - Unit 9 Holbrook, NY 11741 Phone: (631) 472-1732 Fax: (631) 472-0872 www.longshoreenv.com	
Client: Genesis Petroleum Inc. Client # : M2664.112								
Total Boring Depth: 55-ft Date(s): 10/27/2014								
Top of Casing Elevation: - Logged By: Matthew Abbott								
Depth to Water (from TOC): 48.5-ft Contractor: Longshore Env.								
Well Diameter: 1-in Method: Direct-Push								
Depth Below Grade (ft.)	Well Construction Diagram	Blows / 6 in.	Recovery (in.)	Headspace (ppm)	Sample Interval (ft.)	Graphic Log	USCS Soil Group	Soil Description
31								
33								light brown fine to medium sand, poor recovery, no odor, dry
35								
37								light brown fine to medium sand, poor recovery, no odor, dry
39								
41								no recovery
43								
45								
47								no recovery
49								
51								
53								no recovery
55								
Soil sample retained from 20 to 25-ft below grade for laboratory analysis.								

Well Construction Details

Surface Seal: asphalt patch

Screen 1-in sch. 40 PVC 0.020 slot screen (45 Material: to 55-ft)

Well Head Seal: 1-in compression plug

Gravel Pack: native material

Casing Material: 1-in sch. 40 PVC riser (0 to 45-ft)

Borehole Seal: bentonite chips (35 to 37-ft)

Notes

NM = Not Measured

NA = Not Applicable

NS = Not Sampled

ND = Not Detected

BORING LOG AND WELL CONSTRUCTION DETAILS

Location ID: SB/GW-2 (page 1 of 2)

Site Location: US Petroleum Gas Station 2664 NYS Route 112, Medford NY								Longshore Environmental, Inc. 1337 Lincoln Ave - Unit 9 Holbrook, NY 11741 Phone: (631) 472-1732 Fax: (631) 472-0872 www.longshoreenv.com	
Client: Genesis Petroleum Inc.									
Total Boring Depth: 55-ft									
Top of Casing Elevation: -									
Depth to Water (from TOC): 48.5-ft									
Well Diameter: 1-in									

Depth Below Grade (ft.)	Well Construction Diagram	Blows / 6 in.	Recovery (in.)	Headspace (ppm)	Sample Interval (ft.)	Graphic Log	USCS Soil Group	Soil Description	
								Soil Description	Soil Description
1									
3									
5									
7									
9									
11									
13									
15									
17									
19									
21									
23									
25									
27									
29									

continued on page 2

Well Construction Details

Surface Seal: asphalt patch

Screen 1-in sch. 40 PVC 0.020 slot screen (45
Material: to 55-ft)

Well Head Seal: 1-in compression plug

Gravel Pack: native material

Casing Material: 1-in sch. 40 PVC riser (0 to 45-ft)

Borehole Seal: bentonite chips (35 to 37-ft)

Notes

NM = Not Measured

NA = Not Applicable

NS = Not Sampled

ND = Not Detected

BORING LOG AND WELL CONSTRUCTION DETAILS

Location ID: SB/GW-2 (page 2 of 2)

Site Location: US Petroleum Gas Station 2664 NYS Route 112, Medford NY							Longshore Environmental, Inc. 1337 Lincoln Ave - Unit 9 Holbrook, NY 11741 Phone: (631) 472-1732 Fax: (631) 472-0872 www.longshoreenv.com	
Client: Genesis Petroleum Inc. Client # : M2664.112								
Total Boring Depth: 55-ft Date(s): 10/27/2014								
Top of Casing Elevation: - Logged By: Matthew Abbott								
Depth to Water (from TOC): 48.5-ft Contractor: Longshore Env.								
Well Diameter: 1-in Method: Direct-Push								
Depth Below Grade (ft.)	Well Construction Diagram	Blows / 6 in.	Recovery (in.)	Headspace (ppm)	Sample Interval (ft.)	Graphic Log	USCS Soil Group	Soil Description
31					30 - 35	-	-	
33						-	-	
35						-	-	
37					35 - 40	-	-	
39						-	-	
41					40 - 45	-	-	
43						-	-	
45						-	-	
47					45 - 50	-	-	
49						-	-	
51						-	-	
53					50 - 55	-	-	
55						-	-	
Soil sample retained from 20 to 25-ft below grade for laboratory analysis. sampling suspended at 30-ft due to technical difficulties.							Soil	
Well Construction Details								
Surface Seal: asphalt patch				Screen 1-in sch. 40 PVC 0.020 slot screen (45 Material: to 55-ft)				
Well Head Seal: 1-in compression plug				Gravel Pack: native material				
Casing Material: 1-in sch. 40 PVC riser (0 to 45-ft)				Borehole Seal: bentonite chips (35 to 37-ft)				
Notes								
NM = Not Measured	NA = Not Applicable			NS = Not Sampled			ND = Not Detected	

BORING LOG AND WELL CONSTRUCTION DETAILS

Location ID: SB/GW-3 (page 1 of 2)

Site Location:	US Petroleum Gas Station 2664 NYS Route 112, Medford NY	Longshore Environmental, Inc. 1337 Lincoln Ave - Unit 9 Holbrook, NY 11741 Phone: (631) 472-1732 Fax: (631) 472-0872 www.longshoreenv.com
Client: Genesis Petroleum Inc.	Client # : M2664.112	
Total Boring Depth: 55-ft	Date(s): 10/27/2014	
Top of Casing Elevation: -	Logged By: Matthew Abbott	
Depth to Water (from TOC): 46.6-ft	Contractor: Longshore Env.	
Well Diameter: 1-in	Method: Direct-Push	

Depth Below Grade (ft.)	Well Construction Diagram	Blows / 6 in.	Recovery (in.)	Headspace (ppm)	Sample Interval (ft.)	Graphic Log	USCS Soil Group	Soil Description
1								
3		NA	12	< 1.0	0 - 5			5-in grass and topsoil, 7-in dark brown fine to medium sand, little fine gravel, no odor, dry
5							SP	
7		NA	26	5.5	5 - 10			tan fine to medium sand, little fine to medium gravel, no odor, dry
9								
11		NA	18	< 1.0	10 - 15		SW	tan fine to medium sand, no odor, dry
13								
15							SP	
17		NA	26	7	15 - 20			tan fine to medium sand, little fine to medium gravel, no odor, dry
19								
21							SW	
23		NA	27	11	20 - 25			tan fine to medium sand, no odor, dry
25								
27		NA	30	5.2	25 - 30			tan fine to medium sand, trace fine to medium gravel, no odor, dry
29								

continued on page 2

Well Construction Details

Surface Seal: asphalt patch

Screen 1-in sch. 40 PVC 0.020 slot screen (45 Material: to 55-ft)

Well Head Seal: 1-in compression plug

Gravel Pack: native material

Casing Material: 1-in sch. 40 PVC riser (0 to 45-ft)

Borehole Seal: bentonite chips (35 to 37-ft)

Notes

NM = Not Measured

NA = Not Applicable

NS = Not Sampled

ND = Not Detected

BORING LOG AND WELL CONSTRUCTION DETAILS

Location ID: SB/GW-3 (page 2 of 2)

Site Location: US Petroleum Gas Station 2664 NYS Route 112, Medford NY							Longshore Environmental, Inc. 1337 Lincoln Ave - Unit 9 Holbrook, NY 11741 Phone: (631) 472-1732 Fax: (631) 472-0872 www.longshoreenv.com	
Client: Genesis Petroleum Inc. Client # : M2664.112								
Total Boring Depth: 55-ft Date(s): 10/27/2014								
Top of Casing Elevation: - Logged By: Matthew Abbott								
Depth to Water (from TOC): 46.6-ft Contractor: Longshore Env.								
Well Diameter: 1-in Method: Direct-Push								
Depth Below Grade (ft.)	Well Construction Diagram	Blows / 6 in.	Recovery (in.)	Headspace (ppm)	Sample Interval (ft.)	Graphic Log	USCS Soil Group	Soil Description
31								
33								tan fine to medium sand, no odor, dry
35								
37								
39								
41								
43								
45								
47								
49								
51								
53								
55								
Soil sample retained from 45 to 50-ft below grade for laboratory analysis.								
Well Construction Details								
Surface Seal: asphalt patch				Screen 1-in sch. 40 PVC 0.020 slot screen (45 Material: to 55-ft)				
Well Head Seal: 1-in compression plug				Gravel Pack: native material				
Casing Material: 1-in sch. 40 PVC riser (0 to 45-ft)				Borehole Seal: bentonite chips (35 to 37-ft)				
Notes								
NM = Not Measured	NA = Not Applicable			NS = Not Sampled			ND = Not Detected	

BORING LOG AND WELL CONSTRUCTION DETAILS

Location ID: SB/GW-4 (page 1 of 2)

Site Location: US Petroleum Gas Station 2664 NYS Route 112, Medford NY								Longshore Environmental, Inc. 1337 Lincoln Ave - Unit 9 Holbrook, NY 11741 Phone: (631) 472-1732 Fax: (631) 472-0872 www.longshoreenv.com	
Client: Genesis Petroleum Inc.									
Total Boring Depth: 55-ft									
Top of Casing Elevation: -									
Depth to Water (from TOC): 46-ft									
Well Diameter: 1-in									

Depth Below Grade (ft.)	Well Construction Diagram	Blows / 6 in.	Recovery (in.)	Headspace (ppm)	Sample Interval (ft.)	Graphic Log	USCS Soil Group	Soil Description	
								Soil Description	Soil Description
1									
3									
5									
7									
9									
11									
13									
15									
17									
19									
21									
23									
25									
27									
29									

continued on page 2

Well Construction Details

Surface Seal: asphalt patch

Screen 1-in sch. 40 PVC 0.020 slot screen (42
Material: to 52-ft)

Well Head Seal: 1-in compression plug

Gravel Pack: native material

Casing Material: 1-in sch. 40 PVC riser (0 to 42-ft)

Borehole Seal: bentonite chips (35 to 37-ft)

Notes

NM = Not Measured

NA = Not Applicable

NS = Not Sampled

ND = Not Detected

BORING LOG AND WELL CONSTRUCTION DETAILS

Location ID: SB/GW-4 (page 2 of 2)

Site Location: US Petroleum Gas Station 2664 NYS Route 112, Medford NY								Longshore Environmental, Inc. 1337 Lincoln Ave - Unit 9 Holbrook, NY 11741 Phone: (631) 472-1732 Fax: (631) 472-0872 www.longshoreenv.com	
Client: Genesis Petroleum Inc. Client # : M2664.112									
Total Boring Depth: 55-ft Date(s): 10/28/2014									
Top of Casing Elevation: - Logged By: Matthew Abbott									
Depth to Water (from TOC): 46-ft Contractor: Longshore Env.									
Well Diameter: 1-in Method: Direct-Push									
Depth Below Grade (ft.)	Well Construction Diagram		Blows / 6 in.	Recovery (in.)	Headspace (ppm)	Sample Interval (ft.)	Graphic Log	USCS Soil Group	Soil Description
31									
33									tan medium sand, trace fine sand and gravel, no odor, dry
35									
37									tan medium sand, trace fine sand and gravel, no odor, dry
39									
41									tan medium sand, trace fine sand and gravel, no odor, dry
43									
45									
47									tan medium sand, trace fine sand and gravel, odor, wet @ 46-ft
49									
51									
53									tan medium sand, trace fine sand and gravel, slight odor, wet
55									
Soil sample retained from 45 to 50-ft below grade for laboratory analysis.									

Well Construction Details

Surface Seal: asphalt patch

Screen 1-in sch. 40 PVC 0.020 slot screen (42 Material: to 52-ft)

Well Head Seal: 1-in compression plug

Gravel Pack: native material

Casing Material: 1-in sch. 40 PVC riser (0 to 42-ft)

Borehole Seal: bentonite chips (35 to 37-ft)

Notes

NM = Not Measured

NA = Not Applicable

NS = Not Sampled

ND = Not Detected

BORING LOG AND WELL CONSTRUCTION DETAILS

Location ID: SB/GW-5 (page 1 of 2)

Site Location:	US Petroleum Gas Station 2664 NYS Route 112, Medford NY	Longshore Environmental, Inc. 1337 Lincoln Ave - Unit 9 Holbrook, NY 11741 Phone: (631) 472-1732 Fax: (631) 472-0872 www.longshoreenv.com
Client: Genesis Petroleum Inc.	Client # : M2664.112	
Total Boring Depth: 55-ft	Date(s): 10/28/2014	
Top of Casing Elevation: -	Logged By: Matthew Abbott	
Depth to Water (from TOC): 46-ft	Contractor: Longshore Env.	
Well Diameter: 1-in	Method: Direct-Push	

Depth Below Grade (ft.)	Well Construction Diagram	Blows / 6 in.	Recovery (in.)	Headspace (ppm)	Sample Interval (ft.)	Graphic Log	USCS Soil Group	Soil Description	
								Soil Description	Soil Description
1									
3									
5									
7									
9									
11									
13									
15									
17									
19									
21									
23									
25									
27									
29									

continued on page 2

Well Construction Details

Surface Seal: asphalt patch

Screen 1-in sch. 40 PVC 0.020 slot screen (45
Material: to 55-ft)

Well Head Seal: 1-in compression plug

Gravel Pack: native material

Casing Material: 1-in sch. 40 PVC riser (0 to 45-ft)

Borehole Seal: bentonite chips (35 to 37-ft)

Notes

NM = Not Measured

NA = Not Applicable

NS = Not Sampled

ND = Not Detected

BORING LOG AND WELL CONSTRUCTION DETAILS

Location ID: SB/GW-5 (page 2 of 2)

Site Location: US Petroleum Gas Station 2664 NYS Route 112, Medford NY							Longshore Environmental, Inc. 1337 Lincoln Ave - Unit 9 Holbrook, NY 11741 Phone: (631) 472-1732 Fax: (631) 472-0872 www.longshoreenv.com	
Client: Genesis Petroleum Inc. Client # : M2664.112								
Total Boring Depth: 55-ft Date(s): 10/28/2014								
Top of Casing Elevation: - Logged By: Matthew Abbott								
Depth to Water (from TOC): 46-ft Contractor: Longshore Env.								
Well Diameter: 1-in Method: Direct-Push								
Depth Below Grade (ft.)	Well Construction Diagram	Blows / 6 in.	Recovery (in.)	Headspace (ppm)	Sample Interval (ft.)	Graphic Log	USCS Soil Group	Soil Description
31								
33			NA	22	71	30 - 35		tan fine to medium sand, trace fine gravel, no odor, dry
35								
37			NA	22	13	35 - 40		tan fine to medium sand, trace fine gravel, no odor, dry
39								
41			NA	25	934	40 - 45	SW	tan fine to medium sand, trace fine gravel, no odor, dry
43								
45								
47			NA	13	23	45 - 50		tan fine to medium sand, trace fine gravel, no odor, wet
49								
51			NA	0	-	50 - 55		no recovery
53								
55								
Soil sample retained from 40 to 45-ft below grade for laboratory analysis.								
Well Construction Details								
Surface Seal: asphalt patch				Screen 1-in sch. 40 PVC 0.020 slot screen (45 Material: to 55-ft)				
Well Head Seal: 1-in compression plug				Gravel Pack: native material				
Casing Material: 1-in sch. 40 PVC riser (0 to 45-ft)				Borehole Seal: bentonite chips (35 to 37-ft)				
Notes								
NM = Not Measured	NA = Not Applicable	NS = Not Sampled					ND = Not Detected	



American Analytical Laboratories, LLC.
56 Toledo Street
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Website: www.American-Analytical.com

November 05, 2014

Matthew Abbott
Longshore Environmental Inc.
1337 Lincoln Ave., Unit 9
Holbrook, NY 11741
TEL: (631) 472-1732
FAX (631) 472-0872

RE: US Petroleum Sta, 2664 NYS Rte 112, Med Order No.: 1410211

Dear Matthew Abbott:

American Analytical Laboratories, LLC. received 11 sample(s) on 10/29/2014 for the analyses presented in the following report.

Samples were analyzed in accordance with the test procedures documented on the chain of custody and detailed throughout the text of this report. The results reported herein relate only to the items tested or to the samples as received by the laboratory. This report may not be reproduced, except in full, without the approval of American Analytical Laboratories, LLC and is not considered complete without a cover page and chain of custody documentation. The limits (LOQ) provided in the data package are analytical reporting limits and not Federal or Local mandated values to which the sample results should be compared.

There were no problems with the analyses and all data for associated QC met laboratory specifications. If there are any exceptions a Case Narrative is provided in the report or the data is qualified either on the sample results or in the QC section of the report. This package has been reviewed by American Analytical Laboratories' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal.

If you have any questions regarding these tests results, please do not hesitate to call (631) 454-6100 or email me directly at lbeyer@american-analytical.com.

Sincerely,

Lori Beyer
Lab Director
American Analytical Laboratories, LLC.



American Analytical Laboratories, LLC.
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Farmingdale, New York 11735
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Website: www.American-Analytical.com

Workorder
Sample Summary
WO#: 1410211
05-Nov-14

CLIENT: Longshore Environmental Inc.
Project: US Petroleum Sta, 2664 NYS Rte 112, Medford

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1410211-001A	SB-1 (20 to 25 ft)		10/27/2014 10:30:00 AM	10/29/2014 10:51:00 AM	Soil
1410211-002A	SB-2 (20 to 25 ft)		10/27/2014 12:30:00 PM	10/29/2014 10:51:00 AM	Soil
1410211-003A	SB-3 (45 to 50 ft)		10/27/2014 3:30:00 PM	10/29/2014 10:51:00 AM	Soil
1410211-004A	SB-4 (45 to 50 ft)		10/28/2014 10:30:00 AM	10/29/2014 10:51:00 AM	Soil
1410211-005A	SB-5 (40 to 45 ft)		10/28/2014 12:30:00 PM	10/29/2014 10:51:00 AM	Soil
1410211-006A	GW-1 (45 to 55 ft)		10/27/2014 11:00:00 AM	10/29/2014 10:51:52 AM	Liquid
1410211-007A	GW-2 (45 to 55 ft)		10/27/2014 1:00:00 PM	10/29/2014 10:51:52 AM	Liquid
1410211-008A	GW-3 (45 to 55 ft)		10/27/2014 4:00:00 PM	10/29/2014 10:51:52 AM	Liquid
1410211-009A	GW-4 (42 to 52 ft)		10/28/2014 11:00:00 AM	10/29/2014 10:51:52 AM	Liquid
1410211-010A	GW-5 (45 to 55 ft)		10/28/2014 1:00:00 PM	10/29/2014 10:51:52 AM	Liquid
1410211-011A	MW-A		10/27/2014 10:45:00 AM	10/29/2014 10:51:52 AM	Liquid



CHAIN OF CUSTODY

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(T) 631-454-6100 (F) 631-454-8027
www.american-analytical.com

Client Information

Company Name Longshore Environmental, Inc.		Project Name US Petroleum Station		CERTIFICATIONS NY ELAP - 11416 PA DEP - 68-00573 NJ DEP - NY050 CT DOH - PH-0205					
Address 1337 Lincoln Avenue, Unit 9	Street 2654 NYS Route 112	City Holbrook,	Zip 11741	State NY	Zip				
City Holbrook,	City Medford	State NY	State NY	State NY	Zip				
Project Contact Matt Abbott	Project # M2654-112	Sampler's Name / Company Matthew Abbott/Longshore Environmental Inc.							
Phone # 631-472-1732	E-mail matta@longshoreenv.com	Sampler's Signature <i>Matta</i>							
LAB SAMPLE # (LAB USE ONLY)		Sample Information		Sample Collection		Sample Containers		Comments / Remarks	
		Client Sample ID	Sample Type	Matrix Code	Date	Time	Glass / Plastic	Total # of bottles	Number of Each Preserved Bottle
<i>140211-001</i>		SB-1 (20 to 25-ft)	C	S	10/27/2014	<i>1030</i>	G	3	1
<i>140211-002</i>		SB-2 (20 to 25-ft)	C	S	10/27/2014	<i>1230</i>	G	3	1
<i>140211-003</i>		SB-3 (45 to 50-ft)	C	S	10/27/2014	<i>1530</i>	G	3	1
<i>140211-004</i>		SB-4 (45-50 ft)	C	S	10/28/2014	<i>1030</i>	G	3	1
<i>140211-005</i>		SB-5 (40-45 ft)	C	S	10/28/2014	<i>1230</i>	G	3	1
<i>140211-006</i>		GW-1 (45 to 55-ft)	G	L	10/27/2014	<i>1100</i>	G	3	3
<i>140211-007</i>		GW-2 (45 to 55-ft)	G	L	10/27/2014	<i>1200</i>	G	3	3
<i>140211-008</i>		GW-3 (45 to 55-ft)	G	L	10/27/2014	<i>1100</i>	G	3	3
<i>140211-009</i>		GW-4 (40-50 ft)	G	L	10/28/2014	<i>1100</i>	G	3	3
<i>140211-010</i>		GW-5 (45-55 ft)	G	L	10/28/2014	<i>1200</i>	G	3	3
<i>140211-011</i>		MW-A	G	L	10/27/2014	<i>1040</i>	G	3	3
Turnaround Time (Business Days)		SAMPLE TYPE		MATRIX CODES		Comments / Remarks			
<input type="checkbox"/> Standard	<input type="checkbox"/> 3 Day RUSH	<input type="checkbox"/> G = Grab	<input type="checkbox"/> L = Liquid	<input type="checkbox"/> PC = Paint Chip	<p>Sample custody must be documented below, each time samples change possession, with a signature, date, and time.</p> <p><i>John J. Abbott</i></p> <p>PRINTED NAME: <i>John J. Abbott</i> RECEIVED BY: <i>John J. Abbott</i> DATE: <i>10/29/14</i> TIME: <i>9:45 AM</i> PRINTED NAME: <i>J. Abbott</i> RECEIVED BY: <i>J. Abbott</i> DATE: <i>10/29/14</i> TIME: <i>9:45 AM</i></p>				
<input type="checkbox"/> 2 Day RUSH	<input type="checkbox"/> C = Composite	<input type="checkbox"/> S = Soil	<input type="checkbox"/> SL = Sludge						
<input type="checkbox"/> 1 Day RUSH	<input type="checkbox"/> B = Blank	<input type="checkbox"/> O = Oil	<input type="checkbox"/> SD = Solid						
<input type="checkbox"/> 4 Day RUSH			<input type="checkbox"/> W = Wipe	<input type="checkbox"/> M = Miscellaneous					
RECOGNIZED BY (SIGNATURE) <i>John J. Abbott</i>		DATE <i>10/29/14</i>	PRINTED NAME: <i>John J. Abbott</i>	RECEIVED BY: <i>John J. Abbott</i>	DATE <i>10/29/14</i>	TIME: <i>9:45 AM</i>	PRINTED NAME: <i>J. Abbott</i>		
RECOGNIZED BY (SIGNATURE) <i>William J. Berg</i>		DATE <i>10/29/14</i>	PRINTED NAME: <i>William J. Berg</i>	RECEIVED BY: <i>William J. Berg</i>	DATE <i>10/29/14</i>	TIME: <i>10:51 AM</i>	PRINTED NAME: <i>W. J. Berg</i>		
							Cooler Temp: <i>4.2</i>		



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Farmingdale, New York 11735
TEL: (631) 454-6100 FAX: (631) 454-8027
Website: www.American-Analytical.com

Sample Log-In Check List

Client Name: **LONGSHORE ENV** Work Order Number: **1410211** RcptNo: **1**

Logged by: **Lori Beyer** **10/29/2014 10:51:52 AM**

Completed By: **Lori Beyer** **10/29/2014 12:09:01 PM**

Reviewed By: **Karen Kelly** **10/29/2014**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? AAL Lab Courier

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
Custody seals intact on shipping container/cooler? Yes No Not Present
No. Seal Date: Signed By:
5. Was an attempt made to cool the samples? Yes No NA
6. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
7. Sample(s) in proper container(s)? Yes No
8. Sufficient sample volume for indicated test(s)? Yes No
9. Are samples (except VOA and ONG) properly preserved? Yes No
10. Was preservative added to bottles? Yes No NA
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes No No VOA Vials
12. Were any sample containers received broken? Yes No
13. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes No
14. Are matrices correctly identified on Chain of Custody? Yes No
15. Is it clear what analyses were requested? Yes No
16. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes No

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

18. Additional remarks:

Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
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Case Narrative

WO#: 1410211
Date: 11/5/2014

CLIENT: Longshore Environmental Inc.
Project: US Petroleum Sta, 2664 NYS Rte 112, Medford

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846 and additional methods as detailed throughout the text of the report. All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives with exceptions noted in this Narrative discussion and/or in the QC Summary Section of the lab report with appropriate qualifiers. Additional quality control information such as surrogate recovery values for organic testing is provided as part of the analytical results.

Samples were collected via Method 5035A in Sodium Bisulfate and Methanol field preserved vials. No aliquot was received for moisture determination and therefore results are reported on an "as received" basis and not corrected for moisture content. Volatile LCS are analyzed with preservatives - HCL/NaHSO₄/Methanol depending on level of analysis (high/low) similar to sample analysis. Outliers can be attributed to the presence of chemical preservatives. 2-Chloroethyl vinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

The following parameters (if included in this report) are not offered by NY ELAP: VOA 8260 Soil; 1,2,4,5-Tetramethylbenzene, Chlorodifluoromethane, Diisopropyl ether, Ethanol, Freon-114, p-Diethylbenzene, p-Ethyltoluene, Isopropyl Acetate, n-Amyl Acetate, n-Butyl Acetate, n-Propyl Acetate. VOA 8260 Liquid; 1,2,4,5-Tetramethylbenzene, Chlorodifluoromethane, Freon-114, p-Diethylbenzene, p-Ethyltoluene, Isopropyl Acetate, n-Amyl acetate, n-Butyl Acetate, n-Propyl Acetate. Pesticides 8081 Soil; DBCP. Herbicides 8151 Soil; 3,5-Dichlorobenzoic Acid, 4-Nitrophenol, Acifluorfen, Bentazon, Chloramben, DCPA, Picloram .Lachat 10-107-6-1B Ammonia in Soil, SM 2540G Total Volatile Solids, Soil TKN, Soil Organic Nitrogen, Percent Moisture, SM 4500-SO₃ B Sulfite in Liquid, Total Sulfur in Soil, Acid Soluble Chloride by ASTMC1152, Water Soluble Chloride by ASTMC1218, Chlorine Demand by SM 2350 B, Total Residual Chlorine in Liquid and Nitrate-Nitrite, Nitrogen in non-potable water and Reactivity to Sulfide and Reactivity to Cyanide.

The test results meet the requirements of the NYSDOH and NELAC standards, except where noted. The information contained in this analytical report is the sole property of American Analytical Laboratories, LLC. or the client for which this report was issued. The results contained in this report are only representative of the samples received. The sample receipt checklist is included as part of this lab report. Conditions can vary at different times and at different sampling conditions. American Analytical is not responsible for the use or interpretation of the data included herein.



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Definition Only

WO#: 1410211
Date: 11/5/2014

Definitions:

Sample Result and QC Summary Qualifiers - Level I and Level II Reports

ND - Not detected at the reporting limit/Limit of Quantitation

B - The analyte was detected in the associated method blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <5x the blank value as artifact.

E - The value is above the quantitation range

D - Analyte concentration was obtained from diluted analysis or from analysis using reduced sample volume.

J - The analyte was detected below the limit of quantitation but greater than the established Limit of Detection (LOD). There is greater uncertainty associated with these results and data should be considered as estimated.

U - The compound was analyzed for but not detected.

H - Holding time for preparation or analysis has been exceeded.

S - Spike recovery is outside accepted recovery limits.

R - RPD is outside accepted recovery range.

P - Secondary column exceeds 40% difference for GC test.

* - Calibration exceeds method requirement. Due to the large number of analytes for organic testing, the method allows 10% of analytes to have %RSD and/or %D to be >20%.

LOD - Limit of Detection; the lowest level the analyte can be determined to be statistically different from a blank.

LOQ - Limit of Quantitation; the lowest amount of analyte in a sample that can be quantitatively determined with suitable precision and accuracy.

m - Analyte was manually integrated for GC/MS.

+ - Concentration exceeds regulatory level for TCLP

Original

Page 5 of 56

American Analytical Laboratories, LLC.

Date: 05-Nov-14

ELAP ID : 11418

CLIENT: Longshore Environmental Inc.
Lab Order: 1410211
Project: US Petroleum Sta, 2664 NYS Rte 112, Medford
Lab ID: 1410211-001A

Client Sample ID: SB-1 (20 to 25 ft)
Collection Date: 10/27/2014 10:30:00 AM
Matrix: SOIL

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260							
1,2,4-Trimethylbenzene	ND	0.99	5.0	U	µg/Kg	1	10/29/2014 6:00:00 PM
1,3,5-Trimethylbenzene	ND	0.99	5.0	Um	µg/Kg	1	10/29/2014 6:00:00 PM
4-Isopropyltoluene	ND	0.99	5.0	U	µg/Kg	1	10/29/2014 6:00:00 PM
Benzene	ND	0.99	5.0	U	µg/Kg	1	10/29/2014 6:00:00 PM
Diisopropyl ether	ND	0.99	5.0	U	µg/Kg	1	10/29/2014 6:00:00 PM
Ethanol	ND	9.92	20	U	µg/Kg	1	10/29/2014 6:00:00 PM
Ethylbenzene	ND	0.99	5.0	U	µg/Kg	1	10/29/2014 6:00:00 PM
Isopropylbenzene	ND	0.99	5.0	U	µg/Kg	1	10/29/2014 6:00:00 PM
m,p-Xylene	ND	1.98	9.9	U	µg/Kg	1	10/29/2014 6:00:00 PM
Methyl tert-butyl ether	ND	0.99	5.0	U*	µg/Kg	1	10/29/2014 6:00:00 PM
n-Butylbenzene	ND	0.99	5.0	U	µg/Kg	1	10/29/2014 6:00:00 PM
n-Propylbenzene	ND	0.99	5.0	U	µg/Kg	1	10/29/2014 6:00:00 PM
Naphthalene	ND	0.99	5.0	U	µg/Kg	1	10/29/2014 6:00:00 PM
o-Xylene	ND	0.99	5.0	U	µg/Kg	1	10/29/2014 6:00:00 PM
sec-Butylbenzene	ND	0.99	5.0	U	µg/Kg	1	10/29/2014 6:00:00 PM
t-Butyl alcohol	ND	2.48	5.0	U	µg/Kg	1	10/29/2014 6:00:00 PM
tert-Butylbenzene	ND	0.99	5.0	U	µg/Kg	1	10/29/2014 6:00:00 PM
Toluene	ND	0.99	5.0	U	µg/Kg	1	10/29/2014 6:00:00 PM
tert-Amyl Alcohol	ND	1.98	5.0	U	µg/Kg	1	10/29/2014 6:00:00 PM
ethyl-tert-butyl ether	ND	0.99	5.0	U	µg/Kg	1	10/29/2014 6:00:00 PM
tert-amyl methyl ether	ND	0.99	5.0	U	µg/Kg	1	10/29/2014 6:00:00 PM
Surr: 4-Bromofluorobenzene	101	0	50-139	%REC		1	10/29/2014 6:00:00 PM
Surr: Dibromofluoromethane	110	0	50-138	%REC		1	10/29/2014 6:00:00 PM
Surr: Toluene-d8	102	0	71-120	%REC		1	10/29/2014 6:00:00 PM

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American Analytical Laboratories, LLC.

Date: 05-Nov-14

ELAP ID : 11418

CLIENT: Longshore Environmental Inc.
Lab Order: 1410211
Project: US Petroleum Sta, 2664 NYS Rte 112, Medford
Lab ID: 1410211-002A

Client Sample ID: SB-2 (20 to 25 ft)
Collection Date: 10/27/2014 12:30:00 PM
Matrix: SOIL

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260							
1,2,4-Trimethylbenzene	ND	1.11	5.6	U	µg/Kg	1	10/29/2014 6:28:00 PM
1,3,5-Trimethylbenzene	ND	1.11	5.6	U	µg/Kg	1	10/29/2014 6:28:00 PM
4-Isopropyltoluene	ND	1.11	5.6	U	µg/Kg	1	10/29/2014 6:28:00 PM
Benzene	ND	1.11	5.6	U	µg/Kg	1	10/29/2014 6:28:00 PM
Diisopropyl ether	ND	1.11	5.6	U	µg/Kg	1	10/29/2014 6:28:00 PM
Ethanol	ND	11.1	22	U	µg/Kg	1	10/29/2014 6:28:00 PM
Ethylbenzene	ND	1.11	5.6	U	µg/Kg	1	10/29/2014 6:28:00 PM
Isopropylbenzene	ND	1.11	5.6	U	µg/Kg	1	10/29/2014 6:28:00 PM
m,p-Xylene	ND	2.22	11	U	µg/Kg	1	10/29/2014 6:28:00 PM
Methyl tert-butyl ether	ND	1.11	5.6	U*	µg/Kg	1	10/29/2014 6:28:00 PM
n-Butylbenzene	ND	1.11	5.6	U	µg/Kg	1	10/29/2014 6:28:00 PM
n-Propylbenzene	ND	1.11	5.6	U	µg/Kg	1	10/29/2014 6:28:00 PM
Naphthalene	ND	1.11	5.6	U	µg/Kg	1	10/29/2014 6:28:00 PM
o-Xylene	ND	1.11	5.6	U	µg/Kg	1	10/29/2014 6:28:00 PM
sec-Butylbenzene	ND	1.11	5.6	U	µg/Kg	1	10/29/2014 6:28:00 PM
t-Butyl alcohol	ND	2.78	5.6	U	µg/Kg	1	10/29/2014 6:28:00 PM
tert-Butylbenzene	ND	1.11	5.6	U	µg/Kg	1	10/29/2014 6:28:00 PM
Toluene	ND	1.11	5.6	U	µg/Kg	1	10/29/2014 6:28:00 PM
tert-Amyl Alcohol	ND	2.22	5.6	U	µg/Kg	1	10/29/2014 6:28:00 PM
ethyl-tert-butyl ether	ND	1.11	5.6	U	µg/Kg	1	10/29/2014 6:28:00 PM
tert-amyl methyl ether	ND	1.11	5.6	U	µg/Kg	1	10/29/2014 6:28:00 PM
Surr: 4-Bromofluorobenzene	101	0	50-139	%REC		1	10/29/2014 6:28:00 PM
Surr: Dibromofluoromethane	106	0	50-138	%REC		1	10/29/2014 6:28:00 PM
Surr: Toluene-d8	101	0	71-120	%REC		1	10/29/2014 6:28:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, New York, Zip - 11735

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American Analytical Laboratories, LLC.

Date: 05-Nov-14

ELAP ID : 11418

CLIENT: Longshore Environmental Inc.
Lab Order: 1410211
Project: US Petroleum Sta, 2664 NYS Rte 112, Medford
Lab ID: 1410211-003A

Client Sample ID: SB-3 (45 to 50 ft)
Collection Date: 10/27/2014 3:30:00 PM
Matrix: SOIL

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260							
1,2,4-Trimethylbenzene	5900	26.3	130	D	µg/Kg	50	10/30/2014 7:01:00 PM
1,3,5-Trimethylbenzene	2700	26.3	130	D	µg/Kg	50	10/30/2014 7:01:00 PM
4-Isopropyltoluene	150	26.3	130	Dm	µg/Kg	50	10/30/2014 7:01:00 PM
Benzene	ND	0.96	4.8	U	µg/Kg	1	10/29/2014 6:56:00 PM
Diisopropyl ether	ND	0.96	4.8	U	µg/Kg	1	10/29/2014 6:56:00 PM
Ethanol	ND	9.63	19	U	µg/Kg	1	10/29/2014 6:56:00 PM
Ethylbenzene	ND	0.96	4.8	U	µg/Kg	1	10/29/2014 6:56:00 PM
Isopropylbenzene	4.5	0.96	4.8	J	µg/Kg	1	10/29/2014 6:56:00 PM
m,p-Xylene	ND	1.93	9.6	U	µg/Kg	1	10/29/2014 6:56:00 PM
Methyl tert-butyl ether	ND	0.96	4.8	U*	µg/Kg	1	10/29/2014 6:56:00 PM
n-Butylbenzene	750	26.3	130	D	µg/Kg	50	10/30/2014 7:01:00 PM
n-Propylbenzene	44	0.96	4.8		µg/Kg	1	10/29/2014 6:56:00 PM
Naphthalene	35	0.96	4.8		µg/Kg	1	10/29/2014 6:56:00 PM
o-Xylene	ND	0.96	4.8	U	µg/Kg	1	10/29/2014 6:56:00 PM
sec-Butylbenzene	350	26.3	130	D	µg/Kg	50	10/30/2014 7:01:00 PM
t-Butyl alcohol	ND	2.41	4.8	U	µg/Kg	1	10/29/2014 6:56:00 PM
tert-Butylbenzene	ND	0.96	4.8	U	µg/Kg	1	10/29/2014 6:56:00 PM
Toluene	ND	0.96	4.8	U	µg/Kg	1	10/29/2014 6:56:00 PM
tert-Amyl Alcohol	ND	1.93	4.8	U	µg/Kg	1	10/29/2014 6:56:00 PM
ethyl-tert-butyl ether	ND	0.96	4.8	U	µg/Kg	1	10/29/2014 6:56:00 PM
tert-amyl methyl ether	ND	0.96	4.8	U	µg/Kg	1	10/29/2014 6:56:00 PM
Surr: 4-Bromofluorobenzene	109	0	50-139		%REC	1	10/29/2014 6:56:00 PM
Surr: Dibromofluoromethane	117	0	50-138		%REC	1	10/29/2014 6:56:00 PM
Surr: Toluene-d8	57.2	0	71-120	S	%REC	1	10/29/2014 6:56:00 PM

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Date: 05-Nov-14

ELAP ID : 11418

CLIENT: Longshore Environmental Inc.
Lab Order: 1410211
Project: US Petroleum Sta, 2664 NYS Rte 112, Medford
Lab ID: 1410211-004A

Client Sample ID: SB-4 (45 to 50 ft)
Collection Date: 10/28/2014 10:30:00 AM
Matrix: SOIL

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260							
		SW8260C		SW5035A			Analyst: LA
1,2,4-Trimethylbenzene	9100	22.6	110	Dm	µg/Kg	50	10/30/2014 7:29:00 PM
1,3,5-Trimethylbenzene	6200	22.6	110	D	µg/Kg	50	10/30/2014 7:29:00 PM
4-Isopropyltoluene	130	0.85	4.2	m	µg/Kg	1	10/29/2014 7:23:00 PM
Benzene	43	0.85	4.2		µg/Kg	1	10/29/2014 7:23:00 PM
Diisopropyl ether	ND	0.85	4.2	U	µg/Kg	1	10/29/2014 7:23:00 PM
Ethanol	ND	8.49	17	U	µg/Kg	1	10/29/2014 7:23:00 PM
Ethylbenzene	49	0.85	4.2		µg/Kg	1	10/29/2014 7:23:00 PM
Isopropylbenzene	1400	22.6	110	D	µg/Kg	50	10/30/2014 7:29:00 PM
m,p-Xylene	440	45.1	230	D	µg/Kg	50	10/30/2014 7:29:00 PM
Methyl tert-butyl ether	ND	0.85	4.2	U*	µg/Kg	1	10/29/2014 7:23:00 PM
n-Butylbenzene	960	22.6	110	D	µg/Kg	50	10/30/2014 7:29:00 PM
n-Propylbenzene	4000	22.6	110	D	µg/Kg	50	10/30/2014 7:29:00 PM
Naphthalene	100	22.6	110	DJ	µg/Kg	50	10/30/2014 7:29:00 PM
o-Xylene	30	0.85	4.2		µg/Kg	1	10/29/2014 7:23:00 PM
sec-Butylbenzene	450	22.6	110	D	µg/Kg	50	10/30/2014 7:29:00 PM
t-Butyl alcohol	ND	2.12	4.2	U	µg/Kg	1	10/29/2014 7:23:00 PM
tert-Butylbenzene	ND	0.85	4.2	U	µg/Kg	1	10/29/2014 7:23:00 PM
Toluene	ND	0.85	4.2	U	µg/Kg	1	10/29/2014 7:23:00 PM
tert-Amyl Alcohol	ND	1.7	4.2	U	µg/Kg	1	10/29/2014 7:23:00 PM
ethyl-tert-butyl ether	ND	0.85	4.2	U	µg/Kg	1	10/29/2014 7:23:00 PM
tert-amyl methyl ether	ND	0.85	4.2	U	µg/Kg	1	10/29/2014 7:23:00 PM
Surr: 4-Bromofluorobenzene	105	0	50-139	m	%REC	1	10/29/2014 7:23:00 PM
Surr: Dibromofluoromethane	115	0	50-138		%REC	1	10/29/2014 7:23:00 PM
Surr: Toluene-d8	67.1	0	71-120	S	%REC	1	10/29/2014 7:23:00 PM

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Date: 05-Nov-14

ELAP ID : 11418**CLIENT:** Longshore Environmental Inc.**Client Sample ID:** SB-5 (40 to 45 ft)**Lab Order:** 1410211**Collection Date:** 10/28/2014 12:30:00 PM**Project:** US Petroleum Sta, 2664 NYS Rte 112, Medford**Matrix:** SOIL**Lab ID:** 1410211-005A**Certificate of Results**

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260							
1,2,4-Trimethylbenzene	1.0	1.03	5.2	J	µg/Kg	1	10/30/2014 12:33:00 PM
1,3,5-Trimethylbenzene	ND	1.03	5.2	U	µg/Kg	1	10/30/2014 12:33:00 PM
4-Isopropyltoluene	ND	1.03	5.2	Um	µg/Kg	1	10/30/2014 12:33:00 PM
Benzene	ND	1.03	5.2	U	µg/Kg	1	10/30/2014 12:33:00 PM
Diisopropyl ether	ND	1.03	5.2	U	µg/Kg	1	10/30/2014 12:33:00 PM
Ethanol	ND	10.3	21	U	µg/Kg	1	10/30/2014 12:33:00 PM
Ethylbenzene	ND	1.03	5.2	U	µg/Kg	1	10/30/2014 12:33:00 PM
Isopropylbenzene	ND	1.03	5.2	U	µg/Kg	1	10/30/2014 12:33:00 PM
m,p-Xylene	ND	2.06	10	U	µg/Kg	1	10/30/2014 12:33:00 PM
Methyl tert-butyl ether	ND	1.03	5.2	U	µg/Kg	1	10/30/2014 12:33:00 PM
n-Butylbenzene	ND	1.03	5.2	U	µg/Kg	1	10/30/2014 12:33:00 PM
n-Propylbenzene	ND	1.03	5.2	U	µg/Kg	1	10/30/2014 12:33:00 PM
Naphthalene	ND	1.03	5.2	U	µg/Kg	1	10/30/2014 12:33:00 PM
o-Xylene	ND	1.03	5.2	U	µg/Kg	1	10/30/2014 12:33:00 PM
sec-Butylbenzene	ND	1.03	5.2	U	µg/Kg	1	10/30/2014 12:33:00 PM
t-Butyl alcohol	ND	2.58	5.2	U	µg/Kg	1	10/30/2014 12:33:00 PM
tert-Butylbenzene	ND	1.03	5.2	U	µg/Kg	1	10/30/2014 12:33:00 PM
Toluene	1.6	1.03	5.2	J	µg/Kg	1	10/30/2014 12:33:00 PM
ethyl-tert-butyl ether	ND	1.03	5.2	U	µg/Kg	1	10/30/2014 12:33:00 PM
tert-amyl methyl ether	ND	1.03	5.2	U	µg/Kg	1	10/30/2014 12:33:00 PM
Surr: 4-Bromofluorobenzene	99.9	0	50-139	%REC		1	10/30/2014 12:33:00 PM
Surr: Dibromofluoromethane	108	0	50-138	%REC		1	10/30/2014 12:33:00 PM
Surr: Toluene-d8	102	0	71-120	%REC		1	10/30/2014 12:33:00 PM

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Date: 05-Nov-14

ELAP ID : 11418**CLIENT:** Longshore Environmental Inc.**Client Sample ID:** GW-1 (45 to 55 ft)**Lab Order:** 1410211**Collection Date:** 10/27/2014 11:00:00 AM**Project:** US Petroleum Sta, 2664 NYS Rte 112, Medford**Matrix:** LIQUID**Lab ID:** 1410211-006A**Certificate of Results**

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260							
					SW8260C	SW5030C	Analyst: LA
1,2,4-Trimethylbenzene	1.2	0.5	2.0	J	µg/L	1	10/30/2014 8:29:00 PM
1,3,5-Trimethylbenzene	ND	0.5	2.0	U	µg/L	1	10/30/2014 8:29:00 PM
4-Isopropyltoluene	ND	0.5	2.0	U	µg/L	1	10/30/2014 8:29:00 PM
Benzene	ND	0.5	2.0	U	µg/L	1	10/30/2014 8:29:00 PM
Diisopropyl ether	ND	0.5	2.0	U	µg/L	1	10/30/2014 8:29:00 PM
Ethanol	220	2.5	10		µg/L	1	10/30/2014 8:29:00 PM
Ethylbenzene	0.93	0.5	2.0	J	µg/L	1	10/30/2014 8:29:00 PM
Isopropylbenzene	ND	0.5	2.0	U	µg/L	1	10/30/2014 8:29:00 PM
m,p-Xylene	3.1	1	4.0	J	µg/L	1	10/30/2014 8:29:00 PM
Methyl tert-butyl ether	ND	0.5	2.0	U	µg/L	1	10/30/2014 8:29:00 PM
n-Butylbenzene	ND	0.5	2.0	U*	µg/L	1	10/30/2014 8:29:00 PM
n-Propylbenzene	ND	0.5	2.0	U*	µg/L	1	10/30/2014 8:29:00 PM
Naphthalene	ND	0.5	2.0	U	µg/L	1	10/30/2014 8:29:00 PM
o-Xylene	1.5	0.5	2.0	J	µg/L	1	10/30/2014 8:29:00 PM
sec-Butylbenzene	ND	0.5	2.0	U*	µg/L	1	10/30/2014 8:29:00 PM
t-Butyl alcohol	ND	2.5	10	U	µg/L	1	10/30/2014 8:29:00 PM
tert-Butylbenzene	ND	0.5	2.0	U	µg/L	1	10/30/2014 8:29:00 PM
Toluene	2.5	0.5	2.0		µg/L	1	10/30/2014 8:29:00 PM
ethyl-tert-butyl ether	ND	0.5	2.0	U	µg/L	1	10/30/2014 8:29:00 PM
tert-amyl methyl ether	ND	0.5	2.0	U	µg/L	1	10/30/2014 8:29:00 PM
Surr: 4-Bromofluorobenzene	95.5	0	80-120		%REC	1	10/30/2014 8:29:00 PM
Surr: Dibromofluoromethane	108	0	77-131		%REC	1	10/30/2014 8:29:00 PM
Surr: Toluene-d8	101	0	80-120		%REC	1	10/30/2014 8:29:00 PM

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Date: 05-Nov-14

ELAP ID : 11418**CLIENT:** Longshore Environmental Inc.**Client Sample ID:** GW-2 (45 to 55 ft)**Lab Order:** 1410211**Collection Date:** 10/27/2014 1:00:00 PM**Project:** US Petroleum Sta, 2664 NYS Rte 112, Medford**Matrix:** LIQUID**Lab ID:** 1410211-007A**Certificate of Results**

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260							
1,2,4-Trimethylbenzene	1.0	0.5	2.0	J	µg/L	1	10/30/2014 8:57:00 PM
1,3,5-Trimethylbenzene	ND	0.5	2.0	U	µg/L	1	10/30/2014 8:57:00 PM
4-Isopropyltoluene	ND	0.5	2.0	U	µg/L	1	10/30/2014 8:57:00 PM
Benzene	ND	0.5	2.0	U	µg/L	1	10/30/2014 8:57:00 PM
Diisopropyl ether	ND	0.5	2.0	U	µg/L	1	10/30/2014 8:57:00 PM
Ethanol	ND	2.5	10	U	µg/L	1	10/30/2014 8:57:00 PM
Ethylbenzene	1.2	0.5	2.0	J	µg/L	1	10/30/2014 8:57:00 PM
Isopropylbenzene	ND	0.5	2.0	U	µg/L	1	10/30/2014 8:57:00 PM
m,p-Xylene	4.0	1	4.0		µg/L	1	10/30/2014 8:57:00 PM
Methyl tert-butyl ether	ND	0.5	2.0	U	µg/L	1	10/30/2014 8:57:00 PM
n-Butylbenzene	ND	0.5	2.0	U*	µg/L	1	10/30/2014 8:57:00 PM
n-Propylbenzene	ND	0.5	2.0	U*	µg/L	1	10/30/2014 8:57:00 PM
Naphthalene	ND	0.5	2.0	U	µg/L	1	10/30/2014 8:57:00 PM
o-Xylene	1.8	0.5	2.0	J	µg/L	1	10/30/2014 8:57:00 PM
sec-Butylbenzene	ND	0.5	2.0	U*	µg/L	1	10/30/2014 8:57:00 PM
t-Butyl alcohol	ND	2.5	10	U	µg/L	1	10/30/2014 8:57:00 PM
tert-Butylbenzene	ND	0.5	2.0	U	µg/L	1	10/30/2014 8:57:00 PM
Toluene	3.3	0.5	2.0		µg/L	1	10/30/2014 8:57:00 PM
ethyl-tert-butyl ether	ND	0.5	2.0	U	µg/L	1	10/30/2014 8:57:00 PM
tert-amyl methyl ether	ND	0.5	2.0	U	µg/L	1	10/30/2014 8:57:00 PM
Surr: 4-Bromofluorobenzene	94.3	0	80-120		%REC	1	10/30/2014 8:57:00 PM
Surr: Dibromofluoromethane	107	0	77-131		%REC	1	10/30/2014 8:57:00 PM
Surr: Toluene-d8	102	0	80-120		%REC	1	10/30/2014 8:57:00 PM

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Date: 05-Nov-14

ELAP ID : 11418**CLIENT:** Longshore Environmental Inc.**Client Sample ID:** GW-3 (45 to 55 ft)**Lab Order:** 1410211**Collection Date:** 10/27/2014 4:00:00 PM**Project:** US Petroleum Sta, 2664 NYS Rte 112, Medford**Matrix:** LIQUID**Lab ID:** 1410211-008A**Certificate of Results**

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260							
1,2,4-Trimethylbenzene	820	5	20	D	µg/L	10	11/1/2014 8:35:00 AM
1,3,5-Trimethylbenzene	250	5	20	D	µg/L	10	11/1/2014 8:35:00 AM
4-Isopropyltoluene	16	0.5	2.0	m	µg/L	1	10/30/2014 9:25:00 PM
Benzene	ND	0.5	2.0	U	µg/L	1	10/30/2014 9:25:00 PM
Diisopropyl ether	ND	0.5	2.0	U	µg/L	1	10/30/2014 9:25:00 PM
Ethanol	ND	2.5	10	U	µg/L	1	10/30/2014 9:25:00 PM
Ethylbenzene	10	0.5	2.0		µg/L	1	10/30/2014 9:25:00 PM
Isopropylbenzene	70	0.5	2.0		µg/L	1	10/30/2014 9:25:00 PM
m,p-Xylene	46	1	4.0		µg/L	1	10/30/2014 9:25:00 PM
Methyl tert-butyl ether	ND	0.5	2.0	U	µg/L	1	10/30/2014 9:25:00 PM
n-Butylbenzene	66	0.5	2.0	*	µg/L	1	10/30/2014 9:25:00 PM
n-Propylbenzene	160	5	20	D	µg/L	10	11/1/2014 8:35:00 AM
Naphthalene	9.4	0.5	2.0		µg/L	1	10/30/2014 9:25:00 PM
o-Xylene	6.7	0.5	2.0		µg/L	1	10/30/2014 9:25:00 PM
sec-Butylbenzene	35	0.5	2.0	*	µg/L	1	10/30/2014 9:25:00 PM
t-Butyl alcohol	ND	2.5	10	U	µg/L	1	10/30/2014 9:25:00 PM
tert-Butylbenzene	ND	0.5	2.0	U	µg/L	1	10/30/2014 9:25:00 PM
Toluene	4.8	0.5	2.0		µg/L	1	10/30/2014 9:25:00 PM
ethyl-tert-butyl ether	ND	0.5	2.0	U	µg/L	1	10/30/2014 9:25:00 PM
tert-amyl methyl ether	ND	0.5	2.0	U	µg/L	1	10/30/2014 9:25:00 PM
Surr: 4-Bromofluorobenzene	104	0	80-120		%REC	1	10/30/2014 9:25:00 PM
Surr: Dibromofluoromethane	104	0	77-131		%REC	1	10/30/2014 9:25:00 PM
Surr: Toluene-d8	94.8	0	80-120		%REC	1	10/30/2014 9:25:00 PM

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American Analytical Laboratories, LLC.

Date: 05-Nov-14

ELAP ID : 11418**CLIENT:** Longshore Environmental Inc.**Client Sample ID:** GW-4 (42 to 52 ft)**Lab Order:** 1410211**Collection Date:** 10/28/2014 11:00:00 AM**Project:** US Petroleum Sta, 2664 NYS Rte 112, Medford**Matrix:** LIQUID**Lab ID:** 1410211-009A**Certificate of Results**

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260							
					SW8260C	SW5030C	Analyst: LA
1,2,4-Trimethylbenzene	990	5	20	D	µg/L	10	11/1/2014 9:02:00 AM
1,3,5-Trimethylbenzene	270	5	20	D	µg/L	10	11/1/2014 9:02:00 AM
4-Isopropyltoluene	13	0.5	2.0	m	µg/L	1	10/30/2014 9:52:00 PM
Benzene	12	0.5	2.0		µg/L	1	10/30/2014 9:52:00 PM
Diisopropyl ether	ND	0.5	2.0	U	µg/L	1	10/30/2014 9:52:00 PM
Ethanol	ND	2.5	10	U	µg/L	1	10/30/2014 9:52:00 PM
Ethylbenzene	84	0.5	2.0		µg/L	1	10/30/2014 9:52:00 PM
Isopropylbenzene	120	0.5	2.0		µg/L	1	10/30/2014 9:52:00 PM
m,p-Xylene	260	10	40	D	µg/L	10	11/1/2014 9:02:00 AM
Methyl tert-butyl ether	1.4	0.5	2.0	J	µg/L	1	10/30/2014 9:52:00 PM
n-Butylbenzene	70	0.5	2.0	*	µg/L	1	10/30/2014 9:52:00 PM
n-Propylbenzene	190	5	20	D	µg/L	10	11/1/2014 9:02:00 AM
Naphthalene	49	0.5	2.0		µg/L	1	10/30/2014 9:52:00 PM
o-Xylene	46	0.5	2.0		µg/L	1	10/30/2014 9:52:00 PM
sec-Butylbenzene	36	0.5	2.0	*	µg/L	1	10/30/2014 9:52:00 PM
t-Butyl alcohol	ND	2.5	10	U	µg/L	1	10/30/2014 9:52:00 PM
tert-Butylbenzene	ND	0.5	2.0	U	µg/L	1	10/30/2014 9:52:00 PM
Toluene	6.7	0.5	2.0		µg/L	1	10/30/2014 9:52:00 PM
ethyl-tert-butyl ether	ND	0.5	2.0	U	µg/L	1	10/30/2014 9:52:00 PM
tert-amyl methyl ether	ND	0.5	2.0	U	µg/L	1	10/30/2014 9:52:00 PM
Surr: 4-Bromofluorobenzene	104	0	80-120		%REC	1	10/30/2014 9:52:00 PM
Surr: Dibromofluoromethane	105	0	77-131		%REC	1	10/30/2014 9:52:00 PM
Surr: Toluene-d8	93.5	0	80-120		%REC	1	10/30/2014 9:52:00 PM

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Date: 05-Nov-14

ELAP ID : 11418**CLIENT:** Longshore Environmental Inc.**Client Sample ID:** GW-5 (45 to 55 ft)**Lab Order:** 1410211**Collection Date:** 10/28/2014 1:00:00 PM**Project:** US Petroleum Sta, 2664 NYS Rte 112, Medford**Matrix:** LIQUID**Lab ID:** 1410211-010A**Certificate of Results**

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260							
1,2,4-Trimethylbenzene	6.9	0.5	2.0	J	µg/L	1	10/30/2014 10:20:00 PM
1,3,5-Trimethylbenzene	2.0	0.5	2.0	m	µg/L	1	10/30/2014 10:20:00 PM
4-Isopropyltoluene	6.7	0.5	2.0	U	µg/L	1	10/30/2014 10:20:00 PM
Benzene	15	0.5	2.0	U	µg/L	1	10/30/2014 10:20:00 PM
Diisopropyl ether	ND	0.5	2.0	U	µg/L	1	10/30/2014 10:20:00 PM
Ethanol	ND	2.5	10	U	µg/L	1	10/30/2014 10:20:00 PM
Ethylbenzene	1.9	0.5	2.0	J	µg/L	1	10/30/2014 10:20:00 PM
Isopropylbenzene	ND	0.5	2.0	U	µg/L	1	10/30/2014 10:20:00 PM
m,p-Xylene	4.6	1	4.0	U	µg/L	1	10/30/2014 10:20:00 PM
Methyl tert-butyl ether	0.52	0.5	2.0	J	µg/L	1	10/30/2014 10:20:00 PM
n-Butylbenzene	86	0.5	2.0	*	µg/L	1	10/30/2014 10:20:00 PM
n-Propylbenzene	1.1	0.5	2.0	J*	µg/L	1	10/30/2014 10:20:00 PM
Naphthalene	ND	0.5	2.0	U	µg/L	1	10/30/2014 10:20:00 PM
o-Xylene	1.8	0.5	2.0	J	µg/L	1	10/30/2014 10:20:00 PM
sec-Butylbenzene	22	0.5	2.0	*	µg/L	1	10/30/2014 10:20:00 PM
t-Butyl alcohol	ND	2.5	10	U	µg/L	1	10/30/2014 10:20:00 PM
tert-Butylbenzene	ND	0.5	2.0	U	µg/L	1	10/30/2014 10:20:00 PM
Toluene	17	0.5	2.0	U	µg/L	1	10/30/2014 10:20:00 PM
ethyl-tert-butyl ether	ND	0.5	2.0	U	µg/L	1	10/30/2014 10:20:00 PM
tert-amyl methyl ether	ND	0.5	2.0	U	µg/L	1	10/30/2014 10:20:00 PM
Surr: 4-Bromofluorobenzene	98.6	0	80-120	%REC		1	10/30/2014 10:20:00 PM
Surr: Dibromofluoromethane	102	0	77-131	%REC		1	10/30/2014 10:20:00 PM
Surr: Toluene-d8	96.8	0	80-120	%REC		1	10/30/2014 10:20:00 PM

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American Analytical Laboratories, LLC.

Date: 05-Nov-14

ELAP ID : 11418**CLIENT:** Longshore Environmental Inc.**Client Sample ID:** MW-A**Lab Order:** 1410211**Collection Date:** 10/27/2014 10:45:00 AM**Project:** US Petroleum Sta, 2664 NYS Rte 112, Medford**Matrix:** LIQUID**Lab ID:** 1410211-011A**Certificate of Results**

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260							
					SW8260C	SW5030C	Analyst: LA
1,2,4-Trimethylbenzene	260	5	20	D	µg/L	10	11/1/2014 9:58:00 AM
1,3,5-Trimethylbenzene	71	0.5	2.0		µg/L	1	10/30/2014 10:48:00 PM
4-Isopropyltoluene	0.79	0.5	2.0	Jm	µg/L	1	10/30/2014 10:48:00 PM
Benzene	29	0.5	2.0		µg/L	1	10/30/2014 10:48:00 PM
Diisopropyl ether	ND	0.5	2.0	U	µg/L	1	10/30/2014 10:48:00 PM
Ethanol	ND	2.5	10	U	µg/L	1	10/30/2014 10:48:00 PM
Ethylbenzene	600	5	20	D	µg/L	10	11/1/2014 9:58:00 AM
Isopropylbenzene	17	0.5	2.0		µg/L	1	10/30/2014 10:48:00 PM
m,p-Xylene	1600	10	40	D	µg/L	10	11/1/2014 9:58:00 AM
Methyl tert-butyl ether	ND	0.5	2.0	U	µg/L	1	10/30/2014 10:48:00 PM
n-Butylbenzene	14	0.5	2.0	*	µg/L	1	10/30/2014 10:48:00 PM
n-Propylbenzene	42	0.5	2.0	*	µg/L	1	10/30/2014 10:48:00 PM
Naphthalene	47	0.5	2.0		µg/L	1	10/30/2014 10:48:00 PM
o-Xylene	660	5	20	D	µg/L	10	11/1/2014 9:58:00 AM
sec-Butylbenzene	1.2	0.5	2.0	J*	µg/L	1	10/30/2014 10:48:00 PM
t-Butyl alcohol	ND	2.5	10	U	µg/L	1	10/30/2014 10:48:00 PM
tert-Butylbenzene	ND	0.5	2.0	U	µg/L	1	10/30/2014 10:48:00 PM
Toluene	1900	5	20	Dm	µg/L	10	11/1/2014 9:58:00 AM
ethyl-tert-butyl ether	ND	0.5	2.0	U	µg/L	1	10/30/2014 10:48:00 PM
tert-amyl methyl ether	ND	0.5	2.0	U	µg/L	1	10/30/2014 10:48:00 PM
Surr: 4-Bromofluorobenzene	97.6	0	80-120		%REC	1	10/30/2014 10:48:00 PM
Surr: Dibromofluoromethane	93.9	0	77-131		%REC	1	10/30/2014 10:48:00 PM
Surr: Toluene-d8	99.1	0	80-120		%REC	1	10/30/2014 10:48:00 PM

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QC SUMMARY REPORT

WO#: 1410211
05-Nov-14

Client: Longshore Environmental Inc.
Project: US Petroleum Sta, 2664 NYS Rte 112, Medford

BatchID: 2749

Sample ID	LCS-2749	SampType:	LCS	TestCode:	8260_S	Units:	µg/Kg	Prep Date:	10/29/2014	RunNo:	4672		
Client ID:	LCSS	Batch ID:	2749	TestNo:	SW8260C	SW5035A		Analysis Date:	10/29/2014	SeqNo:	86317		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane		41		5.0	50.00	0	81.8	42	139				
1,1,2,2-Tetrachloroethane		38		5.0	50.00	0	75.6	44	138				
1,1,2-Trichloroethane		44		5.0	50.00	0	88.3	43	134				
1,1-Dichloroethane		41		5.0	50.00	0	83.0	41	142				
1,1-Dichloroethene		43		5.0	50.00	0	85.1	33	144				
1,2-Dichlorobenzene		35		5.0	50.00	0	69.9	45	128				
1,2-Dichloroethane		47		5.0	50.00	0	94.4	34	145				
1,2-Dichloropropane		42		5.0	50.00	0	83.1	44	135				
1,3-Dichlorobenzene		35		5.0	50.00	0	70.6	40	135				
1,4-Dichlorobenzene		34		5.0	50.00	0	69.0	42	129				
2-Chloroethyl vinyl ether		ND		5.0	50.00	0	0	30	146			SU	
Benzene		41		5.0	50.00	0	82.4	46	137				
Bromodichloromethane		42		5.0	50.00	0	84.3	44	133				
Bromoform		38		5.0	50.00	0	75.2	39	147				
Bromomethane		59		5.0	50.00	0	119	22	140				
Carbon tetrachloride		41		5.0	50.00	0	82.1	40	144				
Chlorobenzene		36		5.0	50.00	0	71.8	45	131				
Chloroethane		52		5.0	50.00	0	104	43	147				
Chloroform		43		5.0	50.00	0	86.9	40	138				
Chloromethane		51		5.0	50.00	0	103	32	151				
cis-1,2-Dichloroethene		ND		5.0	50.00	0	0.140	40	130			SU	
cis-1,3-Dichloropropene		42		5.0	50.00	0	83.5	44	137				
Dibromochloromethane		44		5.0	50.00	0	88.6	43	139				
Ethylbenzene		35		5.0	50.00	0	69.3	52	138				
Methylene chloride		20		10	50.00	0	40.7	20	120				
Tetrachloroethene		25		5.0	50.00	0	50.6	34	123				

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

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Page 17 of 56



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QC SUMMARY REPORT

WO#: 1410211
05-Nov-14

Client: Longshore Environmental Inc.
Project: US Petroleum Sta, 2664 NYS Rte 112, Medford

BatchID: 2749

Sample ID	LCS-2749	SampType:	LCS	TestCode:	8260_S	Units:	µg/Kg	Prep Date:	10/29/2014	RunNo:	4672		
Client ID:	LCSS	Batch ID:	2749	TestNo:	SW8260C	SW5035A		Analysis Date:	10/29/2014	SeqNo:	86317		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene		39		5.0	50.00	0	77.4	48	135				
trans-1,2-Dichloroethene		40		5.0	50.00	0	80.5	43	137				
trans-1,3-Dichloropropene		46		5.0	50.00	0	91.3	48	135				
Trichloroethene		37		5.0	50.00	0	73.7	44	135				
Trichlorofluoromethane		56		5.0	50.00	0	112	52	149				
Vinyl chloride		56		5.0	50.00	0	112	49	154				
Surr: 4-Bromofluorobenzene		52			50.00		104	50	139				
Surr: Dibromofluoromethane		59			50.00		117	50	139				
Surr: Toluene-d8		52			50.00		104	71	120				

Sample ID	MB-2749	SampType:	MBLK	TestCode:	8260_S	Units:	µg/Kg	Prep Date:	10/29/2014	RunNo:	4672		
Client ID:	PBS	Batch ID:	2749	TestNo:	SW8260C	SW5035A		Analysis Date:	10/29/2014	SeqNo:	86318		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane		ND		5.0									U
1,1,1-Trichloroethane		ND		5.0									U
1,1,2,2-Tetrachloroethane		ND		5.0									U
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		5.0									U
1,1,2-Trichloroethane		ND		5.0									U
1,1-Dichloroethane		ND		5.0									U
1,1-Dichloroethene		ND		5.0									U
1,1-Dichloropropene		ND		5.0									U
1,2,3-Trichlorobenzene		ND		5.0									U
1,2,3-Trichloropropane		ND		5.0									U
1,2,4,5-Tetramethylbenzene		ND		5.0									U

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

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Page 18 of 56



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QC SUMMARY REPORT

WO#: 1410211
05-Nov-14

Client: Longshore Environmental Inc.
Project: US Petroleum Sta, 2664 NYS Rte 112, Medford

BatchID: 2749

Sample ID	MB-2749	SampType:	MBLK	TestCode:	8260_S	Units:	µg/Kg	Prep Date:	10/29/2014	RunNo:	4672		
Client ID:	PBS	Batch ID:	2749	TestNo:	SW8260C	SW5035A		Analysis Date:	10/29/2014	SeqNo:	86318		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene		ND	5.0										U
1,2,4-Trimethylbenzene		ND	5.0										U
1,2-Dibromo-3-chloropropane		ND	5.0										U
1,2-Dibromoethane		ND	5.0										U
1,2-Dichlorobenzene		ND	5.0										U
1,2-Dichloroethane		ND	5.0										U
1,2-Dichloropropane		ND	5.0										U
1,3,5-Trimethylbenzene		ND	5.0										U
1,3-Dichlorobenzene		ND	5.0										U
1,3-dichloropropane		ND	5.0										U
1,4-Dichlorobenzene		ND	5.0										U
1,4-Dioxane		ND	5.0										U
2,2-Dichloropropane		ND	5.0										U
2-Butanone		ND	10										U
2-Chloroethyl vinyl ether		ND	5.0										U
2-Chlorotoluene		ND	5.0										U
2-Hexanone		ND	10										U
2-Propanol		ND	5.0										U
4-Chlorotoluene		ND	5.0										U
4-Isopropyltoluene		ND	5.0										U
4-Methyl-2-pentanone		ND	10										U
Acetone		ND	10										Um
Benzene		ND	5.0										U
Bromobenzene		ND	5.0										U
Bromochloromethane		ND	5.0										U
Bromodichloromethane		ND	5.0										U

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

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Page 19 of 56



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QC SUMMARY REPORT

WO#: 1410211
05-Nov-14

Client: Longshore Environmental Inc.
Project: US Petroleum Sta, 2664 NYS Rte 112, Medford

BatchID: 2749

Sample ID	MB-2749	SampType:	MBLK	TestCode:	8260_S	Units:	µg/Kg	Prep Date:	10/29/2014	RunNo:	4672		
Client ID:	PBS	Batch ID:	2749	TestNo:	SW8260C	SW5035A		Analysis Date:	10/29/2014	SeqNo:	86318		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromoform		ND	5.0										U
Bromomethane		ND	5.0										U
Carbon disulfide		ND	5.0										U
Carbon tetrachloride		ND	5.0										U
Chlorobenzene		ND	5.0										U
Chlorodifluoromethane		ND	5.0										U
Chloroethane		ND	5.0										U
Chloroform		ND	5.0										U
Chloromethane		ND	5.0										U
cis-1,2-Dichloroethene		ND	5.0										U
cis-1,3-Dichloropropene		ND	5.0										U
Cyclohexane		ND	5.0										U
Dibromochloromethane		ND	5.0										U
Dibromomethane		ND	5.0										U
Dichlorodifluoromethane		ND	5.0										U
Diisopropyl ether		ND	5.0										U
Ethanol		ND	20										U
Ethylbenzene		ND	5.0										U
Freon-114		ND	5.0										U
Hexachlorobutadiene		ND	5.0										U
Isopropylbenzene		ND	5.0										U
m,p-Xylene		ND	10										U
Methyl Acetate		ND	5.0										U
Methyl tert-butyl ether		ND	5.0										U*
Methylene chloride		ND	10										U
n-Butylbenzene		ND	5.0										U

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

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Page 20 of 56



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QC SUMMARY REPORT

WO#: 1410211
05-Nov-14

Client: Longshore Environmental Inc.
Project: US Petroleum Sta, 2664 NYS Rte 112, Medford

BatchID: 2749

Sample ID	MB-2749	SampType:	MBLK	TestCode:	8260_S	Units:	µg/Kg	Prep Date:	10/29/2014	RunNo:	4672		
Client ID:	PBS	Batch ID:	2749	TestNo:	SW8260C	SW5035A		Analysis Date:	10/29/2014	SeqNo:	86318		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
n-Propylbenzene		ND	5.0										U
Naphthalene		ND	5.0										U
o-Xylene		ND	5.0										U
p-Diethylbenzene		ND	5.0										U
p-Ethyltoluene		ND	5.0										U
sec-Butylbenzene		ND	5.0										U
Styrene		ND	5.0										U
t-Butyl alcohol		ND	5.0										U
tert-Butylbenzene		ND	5.0										U
Tetrachloroethene		ND	5.0										U
Toluene		ND	5.0										U
trans-1,2-Dichloroethene		ND	5.0										U
trans-1,3-Dichloropropene		ND	5.0										U
Trichloroethene		ND	5.0										U
Trichlorofluoromethane		ND	5.0										U
Vinyl acetate		ND	5.0										U
Vinyl chloride		ND	5.0										U
Surr: 4-Bromofluorobenzene		51		50.00			102	50	139				
Surr: Dibromofluoromethane		56		50.00			112	50	138				
Surr: Toluene-d8		51		50.00			102	71	120				

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

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Page 21 of 56



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QC SUMMARY REPORT

WO#: 1410211
05-Nov-14

Client: Longshore Environmental Inc.
Project: US Petroleum Sta, 2664 NYS Rte 112, Medford

BatchID: 2760

Sample ID	LCS-2760	SampType:	LCS	TestCode:	8260_S	Units:	µg/Kg	Prep Date:	10/30/2014	RunNo:	4672		
Client ID:	LCSS	Batch ID:	2760	TestNo:	SW8260C	SW5035A		Analysis Date:	10/30/2014	SeqNo:	86775		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane		38		5.0	50.00	0	76.7	42	139				
1,1,2,2-Tetrachloroethane		38		5.0	50.00	0	75.4	44	138				
1,1,2-Trichloroethane		42		5.0	50.00	0	84.3	43	134				
1,1-Dichloroethane		39		5.0	50.00	0	77.1	41	142				
1,1-Dichloroethene		40		5.0	50.00	0	79.4	33	144				
1,2-Dichlorobenzene		35		5.0	50.00	0	70.4	45	128				
1,2-Dichloroethane		44		5.0	50.00	0	88.0	34	145				
1,2-Dichloropropane		39		5.0	50.00	0	78.5	44	135				
1,3-Dichlorobenzene		35		5.0	50.00	0	70.5	40	135				
1,4-Dichlorobenzene		35		5.0	50.00	0	69.7	42	129				
2-Chloroethyl vinyl ether		ND		5.0	50.00	0	0	30	146			SU	
Benzene		39		5.0	50.00	0	78.2	46	137				
Bromodichloromethane		40		5.0	50.00	0	79.8	44	133				
Bromoform		37		5.0	50.00	0	74.7	39	147				
Bromomethane		54		5.0	50.00	0	109	22	140				
Carbon tetrachloride		38		5.0	50.00	0	76.1	40	144				
Chlorobenzene		34		5.0	50.00	0	68.9	45	131				
Chloroethane		53		5.0	50.00	0	105	43	147				
Chloroform		40		5.0	50.00	0	80.3	40	138				
Chloromethane		53		5.0	50.00	0	107	32	151				
cis-1,2-Dichloroethene		ND		5.0	50.00	0	0	40	130			SU	
cis-1,3-Dichloropropene		40		5.0	50.00	0	80.4	44	137				
Dibromochloromethane		42		5.0	50.00	0	83.7	43	139				
Ethylbenzene		33		5.0	50.00	0	66.5	52	138				
Methylene chloride		20		10	50.00	0	40.1	20	120				
Tetrachloroethene		25		5.0	50.00	0	49.2	34	123				

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

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Page 22 of 56



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QC SUMMARY REPORT

WO#: 1410211
05-Nov-14

Client: Longshore Environmental Inc.
Project: US Petroleum Sta, 2664 NYS Rte 112, Medford

BatchID: 2760

Sample ID	LCS-2760	SampType:	LCS	TestCode:	8260_S	Units:	µg/Kg	Prep Date:	10/30/2014	RunNo:	4672		
Client ID:	LCSS	Batch ID:	2760	TestNo:	SW8260C	SW5035A		Analysis Date:	10/30/2014	SeqNo:	86775		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene		37		5.0	50.00	0	73.8	48	135				
trans-1,2-Dichloroethene		38		5.0	50.00	0	76.2	43	137				
trans-1,3-Dichloropropene		44		5.0	50.00	0	88.1	48	135				
Trichloroethene		35		5.0	50.00	0	70.6	44	135				
Trichlorofluoromethane		54		5.0	50.00	0	108	52	149				
Vinyl chloride		57		5.0	50.00	0	114	49	154				
Surr: 4-Bromofluorobenzene		52			50.00		105	50	139				
Surr: Dibromofluoromethane		57			50.00		114	50	139				
Surr: Toluene-d8		52			50.00		104	71	120				

Sample ID	MB-2760	SampType:	MBLK	TestCode:	8260_S	Units:	µg/Kg	Prep Date:	10/30/2014	RunNo:	4672		
Client ID:	PBS	Batch ID:	2760	TestNo:	SW8260C	SW5035A		Analysis Date:	10/30/2014	SeqNo:	86776		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane		ND		5.0									U
1,1,1-Trichloroethane		ND		5.0									U
1,1,2,2-Tetrachloroethane		ND		5.0									U
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		5.0									U
1,1,2-Trichloroethane		ND		5.0									U
1,1-Dichloroethane		ND		5.0									U
1,1-Dichloroethene		ND		5.0									U
1,1-Dichloropropene		ND		5.0									U
1,2,3-Trichlorobenzene		ND		5.0									U
1,2,3-Trichloropropane		ND		5.0									U
1,2,4,5-Tetramethylbenzene		ND		5.0									U

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

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Page 23 of 56



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QC SUMMARY REPORT

WO#: 1410211
05-Nov-14

Client: Longshore Environmental Inc.
Project: US Petroleum Sta, 2664 NYS Rte 112, Medford

BatchID: 2760

Sample ID	MB-2760	SampType:	MBLK	TestCode:	8260_S	Units:	µg/Kg	Prep Date:	10/30/2014	RunNo:	4672		
Client ID:	PBS	Batch ID:	2760	TestNo:	SW8260C	SW5035A		Analysis Date:	10/30/2014	SeqNo:	86776		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene		ND	5.0										U
1,2,4-Trimethylbenzene		ND	5.0										U
1,2-Dibromo-3-chloropropane		ND	5.0										U
1,2-Dibromoethane		ND	5.0										U
1,2-Dichlorobenzene		ND	5.0										U
1,2-Dichloroethane		ND	5.0										U
1,2-Dichloropropane		ND	5.0										U
1,3,5-Trimethylbenzene		ND	5.0										U
1,3-Dichlorobenzene		ND	5.0										U
1,3-dichloropropane		ND	5.0										U
1,4-Dichlorobenzene		ND	5.0										U
1,4-Dioxane		ND	5.0										U
2,2-Dichloropropane		ND	5.0										U
2-Butanone		ND	10										U
2-Chloroethyl vinyl ether		ND	5.0										U
2-Chlorotoluene		ND	5.0										U
2-Hexanone		ND	10										U
2-Propanol		ND	5.0										U
4-Chlorotoluene		ND	5.0										U
4-Isopropyltoluene		ND	5.0										U
4-Methyl-2-pentanone		ND	10										U
Acetone		ND	10										U
Benzene		ND	5.0										U
Bromobenzene		ND	5.0										U
Bromochloromethane		ND	5.0										U
Bromodichloromethane		ND	5.0										U

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

Original

Page 24 of 56



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56 Toledo Street
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Website: www.American-Analytical.com

QC SUMMARY REPORT

WO#: 1410211
05-Nov-14

Client: Longshore Environmental Inc.
Project: US Petroleum Sta, 2664 NYS Rte 112, Medford

BatchID: 2760

Sample ID	MB-2760	SampType:	MBLK	TestCode:	8260_S	Units:	µg/Kg	Prep Date:	10/30/2014	RunNo:	4672		
Client ID:	PBS	Batch ID:	2760	TestNo:	SW8260C	SW5035A		Analysis Date:	10/30/2014	SeqNo:	86776		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromoform		ND	5.0										U
Bromomethane		ND	5.0										U
Carbon disulfide		ND	5.0										U
Carbon tetrachloride		ND	5.0										U
Chlorobenzene		ND	5.0										U
Chlorodifluoromethane		ND	5.0										U
Chloroethane		ND	5.0										U
Chloroform		ND	5.0										U
Chloromethane		ND	5.0										U
cis-1,2-Dichloroethene		ND	5.0										U
cis-1,3-Dichloropropene		ND	5.0										U
Cyclohexane		ND	5.0										U
Dibromochloromethane		ND	5.0										U
Dibromomethane		ND	5.0										U
Dichlorodifluoromethane		ND	5.0										U
Diisopropyl ether		ND	5.0										U
Ethanol		ND	20										U
Ethylbenzene		ND	5.0										U
Freon-114		ND	5.0										U
Hexachlorobutadiene		ND	5.0										U
Isopropylbenzene		ND	5.0										U
m,p-Xylene		ND	10										U
Methyl Acetate		ND	5.0										U
Methyl tert-butyl ether		ND	5.0										U
Methylene chloride		ND	10										U
n-Butylbenzene		ND	5.0										U

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

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Page 25 of 56



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QC SUMMARY REPORT

WO#: 1410211
05-Nov-14

Client: Longshore Environmental Inc.
Project: US Petroleum Sta, 2664 NYS Rte 112, Medford

BatchID: 2760

Sample ID	MB-2760	SampType:	MBLK	TestCode:	8260_S	Units:	µg/Kg	Prep Date:	10/30/2014	RunNo:	4672		
Client ID:	PBS	Batch ID:	2760	TestNo:	SW8260C	SW5035A		Analysis Date:	10/30/2014	SeqNo:	86776		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
n-Propylbenzene		ND	5.0										U
Naphthalene		ND	5.0										U
o-Xylene		ND	5.0										U
p-Diethylbenzene		ND	5.0										U
p-Ethyltoluene		ND	5.0										U
sec-Butylbenzene		ND	5.0										U
Styrene		ND	5.0										U
t-Butyl alcohol		ND	5.0										U
tert-Butylbenzene		ND	5.0										U
Tetrachloroethene		ND	5.0										U
Toluene		ND	5.0										U
trans-1,2-Dichloroethene		ND	5.0										U
trans-1,3-Dichloropropene		ND	5.0										U
Trichloroethene		ND	5.0										U
Trichlorofluoromethane		ND	5.0										U
Vinyl acetate		ND	5.0										U
Vinyl chloride		ND	5.0										U
Surr: 4-Bromofluorobenzene		52		50.00			105	50	139				
Surr: Dibromofluoromethane		55		50.00			111	50	138				
Surr: Toluene-d8		51		50.00			102	71	120				

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

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Page 26 of 56



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QC SUMMARY REPORT

WO#: 1410211
05-Nov-14

Client: Longshore Environmental Inc.
Project: US Petroleum Sta, 2664 NYS Rte 112, Medford

BatchID: 2762

Sample ID	LCS-2762	SampType:	LCS	TestCode:	8260_S	Units:	µg/Kg	Prep Date:	10/30/2014	RunNo:	4672		
Client ID:	LCSS	Batch ID:	2762	TestNo:	SW8260C	SW5035A		Analysis Date:	10/30/2014	SeqNo:	86845		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane		1900		250	2500	0	75.9	42	139				
1,1,2,2-Tetrachloroethane		1600		250	2500	0	62.2	44	138				
1,1,2-Trichloroethane		1900		250	2500	0	74.5	43	134				
1,1-Dichloroethane		1900		250	2500	0	75.9	41	142				
1,1-Dichloroethene		1900		250	2500	0	77.1	33	144				
1,2-Dichlorobenzene		1800		250	2500	0	73.8	45	128				
1,2-Dichloroethane		2000		250	2500	0	78.9	34	145				
1,2-Dichloropropane		1900		250	2500	0	76.0	44	135				
1,3-Dichlorobenzene		1900		250	2500	0	74.5	40	135				
1,4-Dichlorobenzene		1800		250	2500	0	72.6	42	129				
2-Chloroethyl vinyl ether		1900		250	2500	0	76.2	30	146				
Benzene		1900		250	2500	0	76.9	46	137				
Bromodichloromethane		1900		250	2500	0	77.2	44	133				
Bromoform		1600		250	2500	0	63.3	39	147				
Bromomethane		2600		250	2500	0	105	22	140				
Carbon tetrachloride		1900		250	2500	0	75.1	40	144				
Chlorobenzene		1800		250	2500	0	72.9	45	131				
Chloroethane		2400		250	2500	0	96.3	43	147				
Chloroform		2000		250	2500	0	78.1	40	138				
Chloromethane		2500		250	2500	0	101	32	151				
cis-1,2-Dichloroethene		ND		250	2500	0	0	40	130			SU	
cis-1,3-Dichloropropene		1900		250	2500	0	74.1	44	137				
Dibromochloromethane		1900		250	2500	0	75.6	43	139				
Ethylbenzene		1800		250	2500	0	70.8	52	138				
Methylene chloride		1000	500	2500	0	39.9	20	120				B	
Tetrachloroethene		1300	250	2500	0	51.3	34	123					

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

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Page 27 of 56



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QC SUMMARY REPORT

WO#: 1410211
05-Nov-14

Client: Longshore Environmental Inc.
Project: US Petroleum Sta, 2664 NYS Rte 112, Medford

BatchID: 2762

Sample ID	LCS-2762	SampType:	LCS	TestCode:	8260_S	Units:	µg/Kg	Prep Date:	10/30/2014	RunNo:	4672		
Client ID:	LCSS	Batch ID:	2762	TestNo:	SW8260C	SW5035A		Analysis Date:	10/30/2014	SeqNo:	86845		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene		1900	250	2500	0	75.0	48	135					
trans-1,2-Dichloroethene		1900	250	2500	0	75.6	43	137					
trans-1,3-Dichloropropene		1900	250	2500	0	78.0	48	135					
Trichloroethene		1900	250	2500	0	74.2	44	135					
Trichlorofluoromethane		2600	250	2500	0	104	52	149					
Vinyl chloride		2700	250	2500	0	109	49	154					
Surr: 4-Bromofluorobenzene		2600		2500		104	50	139					
Surr: Dibromofluoromethane		2700		2500		106	50	139					
Surr: Toluene-d8		2500		2500		101	71	120					

Sample ID	MB-2762	SampType:	MBLK	TestCode:	8260_S	Units:	µg/Kg	Prep Date:	10/30/2014	RunNo:	4672		
Client ID:	PBS	Batch ID:	2762	TestNo:	SW8260C	SW5035A		Analysis Date:	10/30/2014	SeqNo:	86846		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane		ND	250										DU
1,1,1-Trichloroethane		ND	250										DU
1,1,2,2-Tetrachloroethane		ND	250										DU
1,1,2-Trichloro-1,2,2-trifluoroethane		ND	250										DU
1,1,2-Trichloroethane		ND	250										DU
1,1-Dichloroethane		ND	250										DU
1,1-Dichloroethene		ND	250										DU
1,1-Dichloropropene		ND	250										DU
1,2,3-Trichlorobenzene		ND	250										DU
1,2,3-Trichloropropane		ND	250										DU
1,2,4,5-Tetramethylbenzene		ND	250										DU

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

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Page 28 of 56



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QC SUMMARY REPORT

WO#: 1410211
05-Nov-14

Client: Longshore Environmental Inc.
Project: US Petroleum Sta, 2664 NYS Rte 112, Medford

BatchID: 2762

Sample ID	MB-2762	SampType:	MBLK	TestCode:	8260_S	Units:	µg/Kg	Prep Date:	10/30/2014	RunNo:	4672		
Client ID:	PBS	Batch ID:	2762	TestNo:	SW8260C	SW5035A		Analysis Date:	10/30/2014	SeqNo:	86846		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene		ND	250										DU
1,2,4-Trimethylbenzene		ND	250										DU
1,2-Dibromo-3-chloropropane		ND	250										DU
1,2-Dibromoethane		ND	250										DU
1,2-Dichlorobenzene		ND	250										DU
1,2-Dichloroethane		ND	250										DU
1,2-Dichloropropane		ND	250										DU
1,3,5-Trimethylbenzene		ND	250										DU
1,3-Dichlorobenzene		ND	250										DU
1,3-dichloropropane		ND	250										DU
1,4-Dichlorobenzene		ND	250										DU
1,4-Dioxane		ND	250										DU
2,2-Dichloropropane		ND	250										DU
2-Butanone		ND	500										DU
2-Chloroethyl vinyl ether		ND	250										DU
2-Chlorotoluene		ND	250										DU
2-Hexanone		ND	500										DU
2-Propanol		ND	250										DU
4-Chlorotoluene		ND	250										DU
4-Isopropyltoluene		ND	250										DU
4-Methyl-2-pentanone		ND	500										DU
Acetone		ND	500										DU
Benzene		ND	250										DU
Bromobenzene		ND	250										DU
Bromochloromethane		ND	250										DU
Bromodichloromethane		ND	250										DU

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

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Page 29 of 56



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QC SUMMARY REPORT

WO#: 1410211
05-Nov-14

Client: Longshore Environmental Inc.
Project: US Petroleum Sta, 2664 NYS Rte 112, Medford

BatchID: 2762

Sample ID	MB-2762	SampType:	MBLK	TestCode:	8260_S	Units:	µg/Kg	Prep Date:	10/30/2014	RunNo:	4672		
Client ID:	PBS	Batch ID:	2762	TestNo:	SW8260C	SW5035A		Analysis Date:	10/30/2014	SeqNo:	86846		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromoform		ND	250									DU	
Bromomethane		ND	250									DU	
Carbon disulfide		ND	250									DU	
Carbon tetrachloride		ND	250									DU	
Chlorobenzene		ND	250									DU	
Chlorodifluoromethane		ND	250									DU	
Chloroethane		ND	250									DU	
Chloroform		ND	250									DU	
Chloromethane		ND	250									DU	
cis-1,2-Dichloroethene		ND	250									DU	
cis-1,3-Dichloropropene		ND	250									DU	
Cyclohexane		ND	250									DU	
Dibromochloromethane		ND	250									DU	
Dibromomethane		ND	250									DU	
Dichlorodifluoromethane		ND	250									DU	
Diisopropyl ether		ND	250									DU	
Ethanol		ND	1000									DU	
Ethylbenzene		ND	250									DU	
Freon-114		ND	250									DU	
Hexachlorobutadiene		ND	250									DU	
Isopropylbenzene		ND	250									DU	
m,p-Xylene		ND	500									DU	
Methyl Acetate		ND	250									DU	
Methyl tert-butyl ether		ND	250									DU	
Methylene chloride		290	500									DJ	
n-Butylbenzene		ND	250									DU	

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

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Page 30 of 56



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QC SUMMARY REPORT

WO#: 1410211
05-Nov-14

Client: Longshore Environmental Inc.
Project: US Petroleum Sta, 2664 NYS Rte 112, Medford

BatchID: 2762

Sample ID	MB-2762	SampType:	MBLK	TestCode:	8260_S	Units:	µg/Kg	Prep Date:	10/30/2014	RunNo:	4672		
Client ID:	PBS	Batch ID:	2762	TestNo:	SW8260C	SW5035A		Analysis Date:	10/30/2014	SeqNo:	86846		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
n-Propylbenzene		ND	250									DU	
Naphthalene		ND	250									DU	
o-Xylene		ND	250									DU	
p-Diethylbenzene		ND	250									DU	
p-Ethyltoluene		ND	250									DU	
sec-Butylbenzene		ND	250									DU	
Styrene		ND	250									DU	
t-Butyl alcohol		ND	250									DU	
tert-Butylbenzene		ND	250									DU	
Tetrachloroethene		ND	250									DU	
Toluene		ND	250									DU	
trans-1,2-Dichloroethene		ND	250									DU	
trans-1,3-Dichloropropene		ND	250									DU	
Trichloroethene		ND	250									DU	
Trichlorofluoromethane		ND	250									DU	
Vinyl acetate		ND	250									DU	
Vinyl chloride		ND	250									DU	
Surr: 4-Bromofluorobenzene	2500		2500		101	50	139				D		
Surr: Dibromofluoromethane	2600		2500		103	50	138				D		
Surr: Toluene-d8	2500		2500		101	71	120				D		

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

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Page 31 of 56



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QC SUMMARY REPORT

WO#: 1410211
05-Nov-14

Client: Longshore Environmental Inc.
Project: US Petroleum Sta, 2664 NYS Rte 112, Medford

BatchID: 2764

Sample ID	LCS-2764	SampType:	LCS	TestCode:	8260_W	Units:	µg/L	Prep Date:	10/30/2014	RunNo:	4691		
Client ID:	LCSW	Batch ID:	2764	TestNo:	SW8260C	SW5030C		Analysis Date:	10/30/2014	SeqNo:	86923		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane		44		2.0	50.00	0	88.3	54	134				
1,1,2,2-Tetrachloroethane		39		2.0	50.00	0	78.1	38	133				
1,1,2-Trichloroethane		40		2.0	50.00	0	79.8	53	132				
1,1-Dichloroethane		43		2.0	50.00	0	85.9	46	138				
1,1-Dichloroethene		49		2.0	50.00	0	97.1	47	137				
1,2-Dichlorobenzene		40		2.0	50.00	0	79.3	47	134				
1,2-Dichloroethane		40		2.0	50.00	0	79.8	52	136				
1,2-Dichloropropane		42		2.0	50.00	0	84.3	47	145				
1,3-Dichlorobenzene		41		2.0	50.00	0	81.7	47	136				
1,4-Dichlorobenzene		40		2.0	50.00	0	80.5	44	134				
2-Chloroethyl vinyl ether		ND		4.0	50.00	0	0	40	130			SU	
Benzene		43		2.0	50.00	0	86.6	51	138				
Bromodichloromethane		41		2.0	50.00	0	82.7	48	143				
Bromoform		40		2.0	50.00	0	80.6	34	138				
Bromomethane		51		4.0	50.00	0	101	28	152				
Carbon tetrachloride		45		2.0	50.00	0	89.8	52	138				
Chlorobenzene		43		2.0	50.00	0	85.0	48	133				
Chloroethane		60		2.0	50.00	0	121	51	147				
Chloroform		42		2.0	50.00	0	83.4	54	136				
Chloromethane		73		2.0	50.00	0	147	58	146			S	
cis-1,3-Dichloropropene		39		2.0	50.00	0	78.5	52	138				
Dibromochloromethane		40		2.0	50.00	0	80.4	53	131				
Ethylbenzene		46		2.0	50.00	0	92.7	53	134				
Methylene chloride		17		2.0	50.00	0	34.9	10	120			B	
Tetrachloroethene		31		2.0	50.00	0	62.9	44	126				
Toluene		44		2.0	50.00	0	88.7	54	134				

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

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Page 32 of 56



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QC SUMMARY REPORT

WO#: 1410211
05-Nov-14

Client: Longshore Environmental Inc.
Project: US Petroleum Sta, 2664 NYS Rte 112, Medford

BatchID: 2764

Sample ID	LCS-2764	SampType:	LCS	TestCode:	8260_W	Units:	µg/L	Prep Date:	10/30/2014	RunNo:	4691		
Client ID:	LCSW	Batch ID:	2764	TestNo:	SW8260C	SW5030C		Analysis Date:	10/30/2014	SeqNo:	86923		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,2-Dichloroethene		44		2.0	50.00	0	87.6	44	138				
trans-1,3-Dichloropropene		39		2.0	50.00	0	78.5	46	137				
Trichloroethene		42		2.0	50.00	0	83.7	52	134				
Trichlorofluoromethane		67		2.0	50.00	0	134	56	151				
Vinyl chloride		78		2.0	50.00	0	156	55	151				S
Surr: 4-Bromofluorobenzene		49			50.00		97.4	80	120				
Surr: Dibromofluoromethane		50			50.00		99.9	77	131				
Surr: Toluene-d8		50			50.00		100	80	120				

Sample ID	MB-2764	SampType:	MBLK	TestCode:	8260_W	Units:	µg/L	Prep Date:	10/30/2014	RunNo:	4691		
Client ID:	PBW	Batch ID:	2764	TestNo:	SW8260C	SW5030C		Analysis Date:	10/30/2014	SeqNo:	86924		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane		ND		2.0									U
1,1,1-Trichloroethane		ND		2.0									U
1,1,2,2-Tetrachloroethane		ND		2.0									U
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		2.0									U
1,1,2-Trichloroethane		ND		2.0									U
1,1-Dichloroethane		ND		2.0									U
1,1-Dichloroethene		ND		2.0									U
1,1-Dichloropropene		ND		2.0									U
1,2,3-Trichlorobenzene		ND		2.0									U
1,2,3-Trichloropropane		ND		2.0									U
1,2,4,5-Tetramethylbenzene		ND		2.0									U
1,2,4-Trichlorobenzene		ND		2.0									U

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

Original

Page 33 of 56



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QC SUMMARY REPORT

WO#: 1410211
05-Nov-14

Client: Longshore Environmental Inc.
Project: US Petroleum Sta, 2664 NYS Rte 112, Medford

BatchID: 2764

Sample ID	MB-2764	SampType:	MBLK	TestCode:	8260_W	Units:	µg/L	Prep Date:	10/30/2014	RunNo:	4691		
Client ID:	PBW	Batch ID:	2764	TestNo:	SW8260C	SW5030C		Analysis Date:	10/30/2014	SeqNo:	86924		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene		ND	2.0										U
1,2-Dibromo-3-chloropropane		ND	2.0										U
1,2-Dibromoethane		ND	2.0										U
1,2-Dichlorobenzene		ND	2.0										U
1,2-Dichloroethane		ND	2.0										U
1,2-Dichloropropane		ND	2.0										U
1,3,5-Trimethylbenzene		ND	2.0										U
1,3-Dichlorobenzene		ND	2.0										U
1,3-dichloropropane		ND	2.0										U
1,4-Dichlorobenzene		ND	2.0										U
1,4-Dioxane		ND	2.0										U
2,2-Dichloropropane		ND	2.0										U
2-Butanone		ND	5.0										U
2-Chloroethyl vinyl ether		ND	4.0										U
2-Chlorotoluene		ND	2.0										U
2-Hexanone		ND	5.0										U
2-Propanol		ND	2.0										U
4-Chlorotoluene		ND	2.0										U
4-Isopropyltoluene		ND	2.0										U
4-Methyl-2-pentanone		ND	5.0										U
Acetone		1.8	5.0										J
Benzene		ND	2.0										U
Bromobenzene		ND	2.0										U
Bromochloromethane		ND	2.0										U
Bromodichloromethane		ND	2.0										U
Bromoform		ND	2.0										U

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

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Page 34 of 56



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Website: www.American-Analytical.com

QC SUMMARY REPORT

WO#: 1410211
05-Nov-14

Client: Longshore Environmental Inc.
Project: US Petroleum Sta, 2664 NYS Rte 112, Medford

BatchID: 2764

Sample ID	MB-2764	SampType:	MBLK	TestCode:	8260_W	Units:	µg/L	Prep Date:	10/30/2014	RunNo:	4691		
Client ID:	PBW	Batch ID:	2764	TestNo:	SW8260C	SW5030C		Analysis Date:	10/30/2014	SeqNo:	86924		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromomethane		ND	4.0										U
Carbon disulfide		ND	2.0										U
Carbon tetrachloride		ND	2.0										U
Chlorobenzene		ND	2.0										U
Chlorodifluoromethane		ND	2.0										U
Chloroethane		ND	2.0										U
Chloroform		ND	2.0										U
Chloromethane		ND	2.0										U
cis-1,2-Dichloroethene		ND	2.0										U
cis-1,3-Dichloropropene		ND	2.0										U
Cyclohexane		ND	2.0										U
Dibromochloromethane		ND	2.0										U
Dibromomethane		ND	2.0										U
Dichlorodifluoromethane		ND	2.0										U
Diisopropyl ether		ND	2.0										U
Ethanol		ND	10										U
Ethylbenzene		ND	2.0										U
Freon-114		ND	2.0										U
Hexachlorobutadiene		ND	2.0										U
Isopropylbenzene		ND	2.0										U
m,p-Xylene		ND	4.0										U
Methyl Acetate		ND	2.0										U
Methyl tert-butyl ether		ND	2.0										U
Methylene chloride		5.0	2.0										
n-Butylbenzene		ND	2.0										U*
n-Propylbenzene		ND	2.0										U*

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

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Page 35 of 56



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QC SUMMARY REPORT

WO#: 1410211
05-Nov-14

Client: Longshore Environmental Inc.
Project: US Petroleum Sta, 2664 NYS Rte 112, Medford

BatchID: 2764

Sample ID	MB-2764	SampType:	MBLK	TestCode:	8260_W	Units:	µg/L	Prep Date:	10/30/2014	RunNo:	4691		
Client ID:	PBW	Batch ID:	2764	TestNo:	SW8260C	SW5030C		Analysis Date:	10/30/2014	SeqNo:	86924		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene		ND	2.0										U
o-Xylene		ND	2.0										U
p-Diethylbenzene		ND	2.0										U
p-Ethyltoluene		ND	2.0										U
sec-Butylbenzene		ND	2.0										U*
Styrene		ND	2.0										U
t-Butyl alcohol		ND	10										U
tert-Butylbenzene		ND	2.0										U
Tetrachloroethene		ND	2.0										U
Toluene		ND	2.0										U
trans-1,2-Dichloroethene		ND	2.0										U
trans-1,3-Dichloropropene		ND	2.0										U
Trichloroethene		ND	2.0										U
Trichlorofluoromethane		ND	2.0										U
Vinyl acetate		ND	2.0										U
Vinyl chloride		ND	2.0										U
Surr: 4-Bromofluorobenzene		48		50.00		95.4		80	120				
Surr: Dibromofluoromethane		54		50.00		108		77	131				
Surr: Toluene-d8		51		50.00		102		80	120				

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

Original
Page 36 of 56



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QC SUMMARY REPORT

WO#: 1410211
05-Nov-14

Client: Longshore Environmental Inc.
Project: US Petroleum Sta, 2664 NYS Rte 112, Medford

BatchID: 2764

Sample ID	LCS-2764	SampType:	LCS	TestCode:	8260_W	Units:	µg/L	Prep Date:	10/30/2014	RunNo:	4652		
Client ID:	LCSW	Batch ID:	2764	TestNo:	SW8260C	SW5030C		Analysis Date:	10/30/2014	SeqNo:	86105		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane		44		2.0	50.00	0	88.3	54	134				
1,1,2,2-Tetrachloroethane		39		2.0	50.00	0	78.1	38	133				
1,1,2-Trichloroethane		40		2.0	50.00	0	79.8	53	132				
1,1-Dichloroethane		43		2.0	50.00	0	85.9	46	138				
1,1-Dichloroethene		49		2.0	50.00	0	97.1	47	137				
1,2-Dichlorobenzene		40		2.0	50.00	0	79.3	47	134				
1,2-Dichloroethane		40		2.0	50.00	0	79.8	52	136				
1,2-Dichloropropane		42		2.0	50.00	0	84.3	47	145				
1,3-Dichlorobenzene		41		2.0	50.00	0	81.7	47	136				
1,4-Dichlorobenzene		40		2.0	50.00	0	80.5	44	134				
2-Chloroethyl vinyl ether		ND		4.0	50.00	0	0	40	130			SU*	
Benzene		43		2.0	50.00	0	86.6	51	138				
Bromodichloromethane		41		2.0	50.00	0	82.7	48	143				
Bromoform		40		2.0	50.00	0	80.6	34	138			*	
Bromomethane		51		4.0	50.00	0	101	28	152				
Carbon tetrachloride		45		2.0	50.00	0	89.8	52	138				
Chlorobenzene		43		2.0	50.00	0	85.0	48	133				
Chloroethane		60		2.0	50.00	0	121	51	147				
Chloroform		42		2.0	50.00	0	83.4	54	136				
Chloromethane		73		2.0	50.00	0	147	58	146			S	
cis-1,3-Dichloropropene		39		2.0	50.00	0	78.5	52	138				
Dibromochloromethane		40		2.0	50.00	0	80.4	53	131				
Ethylbenzene		46		2.0	50.00	0	92.7	53	134				
Methylene chloride		17		2.0	50.00	0	34.9	10	120			B*	
Tetrachloroethene		31		2.0	50.00	0	62.9	44	126				
Toluene		44		2.0	50.00	0	88.7	54	134				

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

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Page 37 of 56



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QC SUMMARY REPORT

WO#: 1410211
05-Nov-14

Client: Longshore Environmental Inc.
Project: US Petroleum Sta, 2664 NYS Rte 112, Medford

BatchID: 2764

Sample ID	LCS-2764	SampType:	LCS	TestCode:	8260_W	Units:	µg/L	Prep Date:	10/30/2014	RunNo:	4652		
Client ID:	LCSW	Batch ID:	2764	TestNo:	SW8260C	SW5030C		Analysis Date:	10/30/2014	SeqNo:	86105		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,2-Dichloroethene		44		2.0	50.00	0	87.6	44	138				
trans-1,3-Dichloropropene		39		2.0	50.00	0	78.5	46	137				
Trichloroethene		42		2.0	50.00	0	83.7	52	134				
Trichlorofluoromethane		67		2.0	50.00	0	134	56	151				
Vinyl chloride		78		2.0	50.00	0	156	55	151				S
Surr: 4-Bromofluorobenzene		49			50.00		97.4	80	120				
Surr: Dibromofluoromethane		50			50.00		99.9	77	131				
Surr: Toluene-d8		50			50.00		100	80	120				

Sample ID	MB-2764	SampType:	MBLK	TestCode:	8260_W	Units:	µg/L	Prep Date:	10/30/2014	RunNo:	4652		
Client ID:	PBW	Batch ID:	2764	TestNo:	SW8260C	SW5030C		Analysis Date:	10/30/2014	SeqNo:	86106		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane		ND		2.0									U
1,1,1-Trichloroethane		ND		2.0									U
1,1,2,2-Tetrachloroethane		ND		2.0									U
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		2.0									U
1,1,2-Trichloroethane		ND		2.0									U
1,1-Dichloroethane		ND		2.0									U
1,1-Dichloroethene		ND		2.0									U
1,1-Dichloropropene		ND		2.0									U
1,2,3-Trichlorobenzene		ND		2.0									U
1,2,3-Trichloropropane		ND		2.0									U
1,2,4,5-Tetramethylbenzene		ND		2.0									U*
1,2,4-Trichlorobenzene		ND		2.0									U

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

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Page 38 of 56



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QC SUMMARY REPORT

WO#: 1410211
05-Nov-14

Client: Longshore Environmental Inc.
Project: US Petroleum Sta, 2664 NYS Rte 112, Medford

BatchID: 2764

Sample ID	MB-2764	SampType:	MBLK	TestCode:	8260_W	Units:	µg/L	Prep Date:	10/30/2014	RunNo:	4652		
Client ID:	PBW	Batch ID:	2764	TestNo:	SW8260C	SW5030C		Analysis Date:	10/30/2014	SeqNo:	86106		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene		ND	2.0										U
1,2-Dibromo-3-chloropropane		ND	2.0										U*
1,2-Dibromoethane		ND	2.0										U
1,2-Dichlorobenzene		ND	2.0										U
1,2-Dichloroethane		ND	2.0										U
1,2-Dichloropropane		ND	2.0										U
1,3,5-Trimethylbenzene		ND	2.0										U
1,3-Dichlorobenzene		ND	2.0										U
1,3-dichloropropane		ND	2.0										U
1,4-Dichlorobenzene		ND	2.0										U
1,4-Dioxane		ND	2.0										U
2,2-Dichloropropane		ND	2.0										U
2-Butanone		ND	5.0										U
2-Chloroethyl vinyl ether		ND	4.0										U*
2-Chlorotoluene		ND	2.0										U
2-Hexanone		ND	5.0										U
2-Propanol		ND	2.0										U
4-Chlorotoluene		ND	2.0										U
4-Isopropyltoluene		ND	2.0										U
4-Methyl-2-pentanone		ND	5.0										U
Acetone		1.8	5.0										J*
Benzene		ND	2.0										U
Bromobenzene		ND	2.0										U
Bromochloromethane		ND	2.0										U
Bromodichloromethane		ND	2.0										U
Bromoform		ND	2.0										U*

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

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Page 39 of 56



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QC SUMMARY REPORT

WO#: 1410211
05-Nov-14

Client: Longshore Environmental Inc.
Project: US Petroleum Sta, 2664 NYS Rte 112, Medford

BatchID: 2764

Sample ID	MB-2764	SampType:	MBLK	TestCode:	8260_W	Units:	µg/L	Prep Date:	10/30/2014	RunNo:	4652		
Client ID:	PBW	Batch ID:	2764	TestNo:	SW8260C	SW5030C		Analysis Date:	10/30/2014	SeqNo:	86106		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromomethane		ND	4.0										U
Carbon disulfide		ND	2.0										U
Carbon tetrachloride		ND	2.0										U
Chlorobenzene		ND	2.0										U
Chlorodifluoromethane		ND	2.0										U
Chloroethane		ND	2.0										U
Chloroform		ND	2.0										U
Chloromethane		ND	2.0										U
cis-1,2-Dichloroethene		ND	2.0										U
cis-1,3-Dichloropropene		ND	2.0										U
Cyclohexane		ND	2.0										U
Dibromochloromethane		ND	2.0										U
Dibromomethane		ND	2.0										U
Dichlorodifluoromethane		ND	2.0										U*
Diisopropyl ether		ND	2.0										U
Ethanol		ND	10										U
Ethylbenzene		ND	2.0										U
Freon-114		ND	2.0										U*
Hexachlorobutadiene		ND	2.0										U
Isopropylbenzene		ND	2.0										U
m,p-Xylene		ND	4.0										U
Methyl Acetate		ND	2.0										U
Methyl tert-butyl ether		ND	2.0										U
Methylene chloride		5.0	2.0										*
n-Butylbenzene		ND	2.0										U*
n-Propylbenzene		ND	2.0										U*

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

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Page 40 of 56



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QC SUMMARY REPORT

WO#: 1410211
05-Nov-14

Client: Longshore Environmental Inc.
Project: US Petroleum Sta, 2664 NYS Rte 112, Medford

BatchID: 2764

Sample ID	MB-2764	SampType:	MBLK	TestCode:	8260_W	Units:	µg/L	Prep Date:	10/30/2014	RunNo:	4652		
Client ID:	PBW	Batch ID:	2764	TestNo:	SW8260C	SW5030C		Analysis Date:	10/30/2014	SeqNo:	86106		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene		ND	2.0										U
o-Xylene		ND	2.0										U
p-Diethylbenzene		ND	2.0										U
p-Ethyltoluene		ND	2.0										U
sec-Butylbenzene		ND	2.0										U*
Styrene		ND	2.0										U
t-Butyl alcohol		ND	10										U
tert-Butylbenzene		ND	2.0										U
Tetrachloroethene		ND	2.0										U
Toluene		ND	2.0										U
trans-1,2-Dichloroethene		ND	2.0										U
trans-1,3-Dichloropropene		ND	2.0										U
Trichloroethene		ND	2.0										U
Trichlorofluoromethane		ND	2.0										U
Vinyl acetate		ND	2.0										U*
Vinyl chloride		ND	2.0										U
Surr: 4-Bromofluorobenzene		48		50.00		95.4		80	120				
Surr: Dibromofluoromethane		54		50.00		108		77	131				
Surr: Toluene-d8		51		50.00		102		80	120				

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

Original
Page 41 of 56



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QC SUMMARY REPORT

WO#: 1410211
05-Nov-14

Client: Longshore Environmental Inc.
Project: US Petroleum Sta, 2664 NYS Rte 112, Medford

BatchID: 2764

Sample ID	LCS-2764	SampType:	LCS	TestCode:	8260_W	Units:	µg/L	Prep Date:	10/30/2014	RunNo:	4605		
Client ID:	LCSW	Batch ID:	2764	TestNo:	SW8260C	SW5030C		Analysis Date:	10/30/2014	SeqNo:	85753		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane		44		2.0	50.00	0	88.3	54	134				
1,1,2,2-Tetrachloroethane		39		2.0	50.00	0	78.1	38	133				
1,1,2-Trichloroethane		40		2.0	50.00	0	79.8	53	132				
1,1-Dichloroethane		43		2.0	50.00	0	85.9	46	138				
1,1-Dichloroethene		49		2.0	50.00	0	97.1	47	137				
1,2-Dichlorobenzene		40		2.0	50.00	0	79.3	47	134				
1,2-Dichloroethane		40		2.0	50.00	0	79.8	52	136				
1,2-Dichloropropane		42		2.0	50.00	0	84.3	47	145				
1,3-Dichlorobenzene		41		2.0	50.00	0	81.7	47	136				
1,4-Dichlorobenzene		40		2.0	50.00	0	80.5	44	134				
2-Chloroethyl vinyl ether		ND		4.0	50.00	0	0	40	130			SU*	
Benzene		43		2.0	50.00	0	86.6	51	138				
Bromodichloromethane		41		2.0	50.00	0	82.7	48	143				
Bromoform		40		2.0	50.00	0	80.6	34	138			*	
Bromomethane		51		4.0	50.00	0	101	28	152				
Carbon tetrachloride		45		2.0	50.00	0	89.8	52	138				
Chlorobenzene		43		2.0	50.00	0	85.0	48	133				
Chloroethane		60		2.0	50.00	0	121	51	147				
Chloroform		42		2.0	50.00	0	83.4	54	136				
Chloromethane		73		2.0	50.00	0	147	58	146			S	
cis-1,3-Dichloropropene		39		2.0	50.00	0	78.5	52	138				
Dibromochloromethane		40		2.0	50.00	0	80.4	53	131				
Ethylbenzene		46		2.0	50.00	0	92.7	53	134				
Methylene chloride		17		2.0	50.00	0	34.9	10	120			B*	
Tetrachloroethene		31		2.0	50.00	0	62.9	44	126				
Toluene		44		2.0	50.00	0	88.7	54	134				

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

Original

Page 42 of 56



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QC SUMMARY REPORT

WO#: 1410211
05-Nov-14

Client: Longshore Environmental Inc.
Project: US Petroleum Sta, 2664 NYS Rte 112, Medford

BatchID: 2764

Sample ID	LCS-2764	SampType:	LCS	TestCode:	8260_W	Units:	µg/L	Prep Date:	10/30/2014	RunNo:	4605		
Client ID:	LCSW	Batch ID:	2764	TestNo:	SW8260C	SW5030C		Analysis Date:	10/30/2014	SeqNo:	85753		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,2-Dichloroethene		44		2.0	50.00	0	87.6	44	138				
trans-1,3-Dichloropropene		39		2.0	50.00	0	78.5	46	137				
Trichloroethene		42		2.0	50.00	0	83.7	52	134				
Trichlorofluoromethane		67		2.0	50.00	0	134	56	151				
Vinyl chloride		78		2.0	50.00	0	156	55	151				S
Surr: 4-Bromofluorobenzene		49			50.00		97.4	80	120				
Surr: Dibromofluoromethane		50			50.00		99.9	77	131				
Surr: Toluene-d8		50			50.00		100	80	120				

Sample ID	MB-2764	SampType:	MBLK	TestCode:	8260_W	Units:	µg/L	Prep Date:	10/30/2014	RunNo:	4605		
Client ID:	PBW	Batch ID:	2764	TestNo:	SW8260C	SW5030C		Analysis Date:	10/30/2014	SeqNo:	85754		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane		ND		2.0									U
1,1,1-Trichloroethane		ND		2.0									U
1,1,2,2-Tetrachloroethane		ND		2.0									U
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		2.0									U
1,1,2-Trichloroethane		ND		2.0									U
1,1-Dichloroethane		ND		2.0									U
1,1-Dichloroethene		ND		2.0									U
1,1-Dichloropropene		ND		2.0									U
1,2,3-Trichlorobenzene		ND		2.0									U
1,2,3-Trichloropropane		ND		2.0									U
1,2,4,5-Tetramethylbenzene		ND		2.0									U*
1,2,4-Trichlorobenzene		ND		2.0									U

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

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Page 43 of 56



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TEL: (631) 454-6100 FAX: (631) 454-8027
Website: www.American-Analytical.com

QC SUMMARY REPORT

WO#: 1410211
05-Nov-14

Client: Longshore Environmental Inc.
Project: US Petroleum Sta, 2664 NYS Rte 112, Medford

BatchID: 2764

Sample ID	MB-2764	SampType:	MBLK	TestCode:	8260_W	Units:	µg/L	Prep Date:	10/30/2014	RunNo:	4605		
Client ID:	PBW	Batch ID:	2764	TestNo:	SW8260C	SW5030C		Analysis Date:	10/30/2014	SeqNo:	85754		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene		ND	2.0										U
1,2-Dibromo-3-chloropropane		ND	2.0										U*
1,2-Dibromoethane		ND	2.0										U
1,2-Dichlorobenzene		ND	2.0										U
1,2-Dichloroethane		ND	2.0										U
1,2-Dichloropropane		ND	2.0										U
1,3,5-Trimethylbenzene		ND	2.0										U
1,3-Dichlorobenzene		ND	2.0										U
1,3-dichloropropane		ND	2.0										U
1,4-Dichlorobenzene		ND	2.0										U
1,4-Dioxane		ND	2.0										U
2,2-Dichloropropane		ND	2.0										U
2-Butanone		ND	5.0										U
2-Chloroethyl vinyl ether		ND	4.0										U
2-Chlorotoluene		ND	2.0										U
2-Hexanone		ND	5.0										U
2-Propanol		ND	2.0										U
4-Chlorotoluene		ND	2.0										U
4-Isopropyltoluene		ND	2.0										U
4-Methyl-2-pentanone		ND	5.0										U
Acetone		1.8	5.0										J*
Benzene		ND	2.0										U
Bromobenzene		ND	2.0										U
Bromochloromethane		ND	2.0										U
Bromodichloromethane		ND	2.0										U
Bromoform		ND	2.0										U*

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

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Page 44 of 56



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QC SUMMARY REPORT

WO#: 1410211
05-Nov-14

Client: Longshore Environmental Inc.
Project: US Petroleum Sta, 2664 NYS Rte 112, Medford

BatchID: 2764

Sample ID	MB-2764	SampType:	MBLK	TestCode:	8260_W	Units:	µg/L	Prep Date:	10/30/2014	RunNo:	4605		
Client ID:	PBW	Batch ID:	2764	TestNo:	SW8260C	SW5030C		Analysis Date:	10/30/2014	SeqNo:	85754		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromomethane		ND	4.0										U
Carbon disulfide		ND	2.0										U
Carbon tetrachloride		ND	2.0										U
Chlorobenzene		ND	2.0										U
Chlorodifluoromethane		ND	2.0										U
Chloroethane		ND	2.0										U
Chloroform		ND	2.0										U
Chloromethane		ND	2.0										U
cis-1,2-Dichloroethene		ND	2.0										U
cis-1,3-Dichloropropene		ND	2.0										U
Cyclohexane		ND	2.0										U
Dibromochloromethane		ND	2.0										U
Dibromomethane		ND	2.0										U
Dichlorodifluoromethane		ND	2.0										U*
Diisopropyl ether		ND	2.0										U
Ethanol		ND	10										U
Ethylbenzene		ND	2.0										U
Freon-114		ND	2.0										U*
Hexachlorobutadiene		ND	2.0										U
Isopropylbenzene		ND	2.0										U
m,p-Xylene		ND	4.0										U
Methyl Acetate		ND	2.0										U
Methyl tert-butyl ether		ND	2.0										U
Methylene chloride		5.0	2.0										*
n-Butylbenzene		ND	2.0										U*
n-Propylbenzene		ND	2.0										U*

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

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Page 45 of 56



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QC SUMMARY REPORT

WO#: 1410211
05-Nov-14

Client: Longshore Environmental Inc.
Project: US Petroleum Sta, 2664 NYS Rte 112, Medford

BatchID: 2764

Sample ID	MB-2764	SampType:	MBLK	TestCode:	8260_W	Units:	µg/L	Prep Date:	10/30/2014	RunNo:	4605		
Client ID:	PBW	Batch ID:	2764	TestNo:	SW8260C	SW5030C		Analysis Date:	10/30/2014	SeqNo:	85754		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene		ND	2.0										U
o-Xylene		ND	2.0										U
p-Diethylbenzene		ND	2.0										U
p-Ethyltoluene		ND	2.0										U
sec-Butylbenzene		ND	2.0										U*
Styrene		ND	2.0										U
t-Butyl alcohol		ND	10										U
tert-Butylbenzene		ND	2.0										U
Tetrachloroethene		ND	2.0										U
Toluene		ND	2.0										U
trans-1,2-Dichloroethene		ND	2.0										U
trans-1,3-Dichloropropene		ND	2.0										U
Trichloroethene		ND	2.0										U
Trichlorofluoromethane		ND	2.0										U
Vinyl acetate		ND	2.0										U*
Vinyl chloride		ND	2.0										U
Surr: 4-Bromofluorobenzene		48		50.00		95.4		80	120				
Surr: Dibromofluoromethane		54		50.00		108		77	131				
Surr: Toluene-d8		51		50.00		102		80	120				

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

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Page 46 of 56



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QC SUMMARY REPORT

WO#: 1410211
05-Nov-14

Client: Longshore Environmental Inc.
Project: US Petroleum Sta, 2664 NYS Rte 112, Medford

BatchID: 2764

Sample ID	LCS-2764	SampType:	LCS	TestCode:	8260_W	Units:	µg/L	Prep Date:	10/30/2014	RunNo:	4535		
Client ID:	LCSW	Batch ID:	2764	TestNo:	SW8260C	SW5030C		Analysis Date:	10/30/2014	SeqNo:	84761		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane		44		2.0	50.00	0	88.3	54	134				
1,1,2,2-Tetrachloroethane		39		2.0	50.00	0	78.1	38	133				
1,1,2-Trichloroethane		40		2.0	50.00	0	79.8	53	132				
1,1-Dichloroethane		43		2.0	50.00	0	85.9	46	138				
1,1-Dichloroethene		49		2.0	50.00	0	97.1	47	137				
1,2-Dichlorobenzene		40		2.0	50.00	0	79.3	47	134				
1,2-Dichloroethane		40		2.0	50.00	0	79.8	52	136				
1,2-Dichloropropane		42		2.0	50.00	0	84.3	47	145				
1,3-Dichlorobenzene		41		2.0	50.00	0	81.7	47	136				
1,4-Dichlorobenzene		40		2.0	50.00	0	80.5	44	134				
2-Chloroethyl vinyl ether		ND		4.0	50.00	0	0	40	130			SU	
Benzene		43		2.0	50.00	0	86.6	51	138				
Bromodichloromethane		41		2.0	50.00	0	82.7	48	143				
Bromoform		40		2.0	50.00	0	80.6	34	138				
Bromomethane		51		4.0	50.00	0	101	28	152				
Carbon tetrachloride		45		2.0	50.00	0	89.8	52	138				
Chlorobenzene		43		2.0	50.00	0	85.0	48	133				
Chloroethane		60		2.0	50.00	0	121	51	147				
Chloroform		42		2.0	50.00	0	83.4	54	136				
Chloromethane		73		2.0	50.00	0	147	58	146			S	
cis-1,3-Dichloropropene		39		2.0	50.00	0	78.5	52	138				
Dibromochloromethane		40		2.0	50.00	0	80.4	53	131				
Ethylbenzene		46		2.0	50.00	0	92.7	53	134				
Methylene chloride		17		2.0	50.00	0	34.9	10	120			B	
Tetrachloroethene		31		2.0	50.00	0	62.9	44	126				
Toluene		44		2.0	50.00	0	88.7	54	134				

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

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Page 47 of 56



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QC SUMMARY REPORT

WO#: 1410211
05-Nov-14

Client: Longshore Environmental Inc.
Project: US Petroleum Sta, 2664 NYS Rte 112, Medford

BatchID: 2764

Sample ID	LCS-2764	SampType:	LCS	TestCode:	8260_W	Units:	µg/L	Prep Date:	10/30/2014	RunNo:	4535		
Client ID:	LCSW	Batch ID:	2764	TestNo:	SW8260C	SW5030C		Analysis Date:	10/30/2014	SeqNo:	84761		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,2-Dichloroethene		44		2.0	50.00	0	87.6	44	138				
trans-1,3-Dichloropropene		39		2.0	50.00	0	78.5	46	137				
Trichloroethene		42		2.0	50.00	0	83.7	52	134				
Trichlorofluoromethane		67		2.0	50.00	0	134	56	151				
Vinyl chloride		78		2.0	50.00	0	156	55	151				S
Surr: 4-Bromofluorobenzene		49			50.00		97.4	80	120				
Surr: Dibromofluoromethane		50			50.00		99.9	77	131				
Surr: Toluene-d8		50			50.00		100	80	120				

Sample ID	MB-2764	SampType:	MBLK	TestCode:	8260_W	Units:	µg/L	Prep Date:	10/30/2014	RunNo:	4535		
Client ID:	PBW	Batch ID:	2764	TestNo:	SW8260C	SW5030C		Analysis Date:	10/30/2014	SeqNo:	84762		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane		ND		2.0									U
1,1,1-Trichloroethane		ND		2.0									U
1,1,2,2-Tetrachloroethane		ND		2.0									U
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		2.0									U
1,1,2-Trichloroethane		ND		2.0									U
1,1-Dichloroethane		ND		2.0									U
1,1-Dichloroethene		ND		2.0									U
1,1-Dichloropropene		ND		2.0									U
1,2,3-Trichlorobenzene		ND		2.0									U
1,2,3-Trichloropropane		ND		2.0									U
1,2,4,5-Tetramethylbenzene		ND		2.0									U
1,2,4-Trichlorobenzene		ND		2.0									U

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

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Page 48 of 56



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QC SUMMARY REPORT

WO#: 1410211
05-Nov-14

Client: Longshore Environmental Inc.
Project: US Petroleum Sta, 2664 NYS Rte 112, Medford

BatchID: 2764

Sample ID	MB-2764	SampType:	MBLK	TestCode:	8260_W	Units:	µg/L	Prep Date:	10/30/2014	RunNo:	4535		
Client ID:	PBW	Batch ID:	2764	TestNo:	SW8260C	SW5030C		Analysis Date:	10/30/2014	SeqNo:	84762		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene		ND	2.0										U
1,2-Dibromo-3-chloropropane		ND	2.0										U
1,2-Dibromoethane		ND	2.0										U
1,2-Dichlorobenzene		ND	2.0										U
1,2-Dichloroethane		ND	2.0										U
1,2-Dichloropropane		ND	2.0										U
1,3,5-Trimethylbenzene		ND	2.0										U
1,3-Dichlorobenzene		ND	2.0										U
1,3-dichloropropane		ND	2.0										U
1,4-Dichlorobenzene		ND	2.0										U
1,4-Dioxane		ND	2.0										U
2,2-Dichloropropane		ND	2.0										U
2-Butanone		ND	5.0										U
2-Chloroethyl vinyl ether		ND	4.0										U
2-Chlorotoluene		ND	2.0										U
2-Hexanone		ND	5.0										U
2-Propanol		ND	2.0										U
4-Chlorotoluene		ND	2.0										U
4-Isopropyltoluene		ND	2.0										U
4-Methyl-2-pentanone		ND	5.0										U
Acetone		1.8	5.0										J
Benzene		ND	2.0										U
Bromobenzene		ND	2.0										U
Bromochloromethane		ND	2.0										U
Bromodichloromethane		ND	2.0										U
Bromoform		ND	2.0										U

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

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Page 49 of 56



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QC SUMMARY REPORT

WO#: 1410211
05-Nov-14

Client: Longshore Environmental Inc.
Project: US Petroleum Sta, 2664 NYS Rte 112, Medford

BatchID: 2764

Sample ID	MB-2764	SampType:	MBLK	TestCode:	8260_W	Units:	µg/L	Prep Date:	10/30/2014	RunNo:	4535		
Client ID:	PBW	Batch ID:	2764	TestNo:	SW8260C	SW5030C		Analysis Date:	10/30/2014	SeqNo:	84762		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromomethane		ND	4.0										U
Carbon disulfide		ND	2.0										U
Carbon tetrachloride		ND	2.0										U
Chlorobenzene		ND	2.0										U
Chlorodifluoromethane		ND	2.0										U
Chloroethane		ND	2.0										U
Chloroform		ND	2.0										U
Chloromethane		ND	2.0										U
cis-1,2-Dichloroethene		ND	2.0										U
cis-1,3-Dichloropropene		ND	2.0										U
Cyclohexane		ND	2.0										U
Dibromochloromethane		ND	2.0										U
Dibromomethane		ND	2.0										U
Dichlorodifluoromethane		ND	2.0										U
Diisopropyl ether		ND	2.0										U
Ethanol		ND	10										U
Ethylbenzene		ND	2.0										U
Freon-114		ND	2.0										U
Hexachlorobutadiene		ND	2.0										U
Isopropylbenzene		ND	2.0										U
m,p-Xylene		ND	4.0										U
Methyl Acetate		ND	2.0										U
Methyl tert-butyl ether		ND	2.0										U
Methylene chloride		5.0	2.0										
n-Butylbenzene		ND	2.0										U*
n-Propylbenzene		ND	2.0										U*

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

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Page 50 of 56



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QC SUMMARY REPORT

WO#: 1410211
05-Nov-14

Client: Longshore Environmental Inc.
Project: US Petroleum Sta, 2664 NYS Rte 112, Medford

BatchID: 2764

Sample ID	MB-2764	SampType:	MBLK	TestCode:	8260_W	Units:	µg/L	Prep Date:	10/30/2014	RunNo:	4535		
Client ID:	PBW	Batch ID:	2764	TestNo:	SW8260C	SW5030C		Analysis Date:	10/30/2014	SeqNo:	84762		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene		ND	2.0										U
o-Xylene		ND	2.0										U
p-Diethylbenzene		ND	2.0										U
p-Ethyltoluene		ND	2.0										U
sec-Butylbenzene		ND	2.0										U*
Styrene		ND	2.0										U
t-Butyl alcohol		ND	10										U
tert-Butylbenzene		ND	2.0										U
Tetrachloroethene		ND	2.0										U
Toluene		ND	2.0										U
trans-1,2-Dichloroethene		ND	2.0										U
trans-1,3-Dichloropropene		ND	2.0										U
Trichloroethene		ND	2.0										U
Trichlorofluoromethane		ND	2.0										U
Vinyl acetate		ND	2.0										U
Vinyl chloride		ND	2.0										U
Surr: 4-Bromofluorobenzene		48		50.00		95.4		80	120				
Surr: Dibromofluoromethane		54		50.00		108		77	131				
Surr: Toluene-d8		51		50.00		102		80	120				

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

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Page 51 of 56



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QC SUMMARY REPORT

WO#: 1410211
05-Nov-14

Client: Longshore Environmental Inc.
Project: US Petroleum Sta, 2664 NYS Rte 112, Medford

BatchID: 2792

Sample ID	LCS-2792	SampType:	LCS	TestCode:	8260_W	Units:	µg/L	Prep Date:	10/31/2014	RunNo:	4691		
Client ID:	LCSW	Batch ID:	2792	TestNo:	SW8260C	SW5030C		Analysis Date:	11/1/2014	SeqNo:	87050		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane		52		2.0	50.00	0	103	54	134				
1,1,2,2-Tetrachloroethane		45		2.0	50.00	0	90.7	38	133				
1,1,2-Trichloroethane		46		2.0	50.00	0	92.4	53	132				
1,1-Dichloroethane		50		2.0	50.00	0	100	46	138				
1,1-Dichloroethene		56		2.0	50.00	0	112	47	137				
1,2-Dichlorobenzene		44		2.0	50.00	0	87.8	47	134				
1,2-Dichloroethane		46		2.0	50.00	0	92.8	52	136				
1,2-Dichloropropane		49		2.0	50.00	0	98.6	47	145				
1,3-Dichlorobenzene		45		2.0	50.00	0	89.9	47	136				
1,4-Dichlorobenzene		44		2.0	50.00	0	87.9	44	134				
2-Chloroethyl vinyl ether		ND		4.0	50.00	0	0	40	130			SU	
Benzene		51		2.0	50.00	0	102	51	138				
Bromodichloromethane		48		2.0	50.00	0	96.8	48	143				
Bromoform		48		2.0	50.00	0	95.4	34	138				
Bromomethane		45		4.0	50.00	0	89.2	28	152				
Carbon tetrachloride		53		2.0	50.00	0	106	52	138				
Chlorobenzene		48		2.0	50.00	0	95.2	48	133				
Chloroethane		50		2.0	50.00	0	99.2	51	147				
Chloroform		49		2.0	50.00	0	98.7	54	136				
Chloromethane		59		2.0	50.00	0	118	58	146				
cis-1,3-Dichloropropene		45		2.0	50.00	0	90.5	52	138				
Dibromochloromethane		46		2.0	50.00	0	92.4	53	131				
Ethylbenzene		51		2.0	50.00	0	103	53	134				
Methylene chloride		19		2.0	50.00	0	38.7	10	120			B	
Tetrachloroethene		34		2.0	50.00	0	68.4	44	126				
Toluene		51		2.0	50.00	0	102	54	134				

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

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Page 52 of 56



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Website: www.American-Analytical.com

QC SUMMARY REPORT

WO#: 1410211
05-Nov-14

Client: Longshore Environmental Inc.
Project: US Petroleum Sta, 2664 NYS Rte 112, Medford

BatchID: 2792

Sample ID	LCS-2792	SampType:	LCS	TestCode:	8260_W	Units:	µg/L	Prep Date:	10/31/2014	RunNo:	4691		
Client ID:	LCSW	Batch ID:	2792	TestNo:	SW8260C	SW5030C		Analysis Date:	11/1/2014	SeqNo:	87050		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,2-Dichloroethene		51		2.0	50.00	0	101	44	138				
trans-1,3-Dichloropropene		45		2.0	50.00	0	90.5	46	137				
Trichloroethene		48		2.0	50.00	0	95.7	52	134				
Trichlorofluoromethane		55		2.0	50.00	0	111	56	151				
Vinyl chloride		61		2.0	50.00	0	123	55	151				
Surr: 4-Bromofluorobenzene		47			50.00		93.7	80	120				
Surr: Dibromofluoromethane		51			50.00		102	77	131				
Surr: Toluene-d8		50			50.00		101	80	120				

Sample ID	MB-2792	SampType:	MBLK	TestCode:	8260_W	Units:	µg/L	Prep Date:	10/31/2014	RunNo:	4691		
Client ID:	PBW	Batch ID:	2792	TestNo:	SW8260C	SW5030C		Analysis Date:	11/1/2014	SeqNo:	87051		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane		ND		2.0									U
1,1,1-Trichloroethane		ND		2.0									U
1,1,2,2-Tetrachloroethane		ND		2.0									U
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		2.0									U
1,1,2-Trichloroethane		ND		2.0									U
1,1-Dichloroethane		ND		2.0									U
1,1-Dichloroethene		ND		2.0									U
1,1-Dichloropropene		ND		2.0									U
1,2,3-Trichlorobenzene		ND		2.0									U
1,2,3-Trichloropropane		ND		2.0									U
1,2,4,5-Tetramethylbenzene		ND		2.0									U
1,2,4-Trichlorobenzene		ND		2.0									U

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

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Page 53 of 56



American Analytical Laboratories, LLC.
56 Toledo Street
Farmingdale, New York 11735
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Website: www.American-Analytical.com

QC SUMMARY REPORT

WO#: 1410211
05-Nov-14

Client: Longshore Environmental Inc.
Project: US Petroleum Sta, 2664 NYS Rte 112, Medford

BatchID: 2792

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Client ID:	PBW	Batch ID:	2792	TestNo:	SW8260C	SW5030C		Analysis Date:	11/1/2014	SeqNo:	87051		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene		ND	2.0										U
1,2-Dibromo-3-chloropropane		ND	2.0										U
1,2-Dibromoethane		ND	2.0										U
1,2-Dichlorobenzene		ND	2.0										U
1,2-Dichloroethane		ND	2.0										U
1,2-Dichloropropane		ND	2.0										U
1,3,5-Trimethylbenzene		ND	2.0										U
1,3-Dichlorobenzene		ND	2.0										U
1,3-dichloropropane		ND	2.0										U
1,4-Dichlorobenzene		ND	2.0										U
1,4-Dioxane		ND	2.0										U
2,2-Dichloropropane		ND	2.0										U
2-Butanone		ND	5.0										U
2-Chloroethyl vinyl ether		ND	4.0										U
2-Chlorotoluene		ND	2.0										U
2-Hexanone		ND	5.0										U
2-Propanol		ND	2.0										U
4-Chlorotoluene		ND	2.0										U
4-Isopropyltoluene		ND	2.0										U
4-Methyl-2-pentanone		ND	5.0										U
Acetone		1.5	5.0										J
Benzene		ND	2.0										U
Bromobenzene		ND	2.0										U
Bromochloromethane		ND	2.0										U
Bromodichloromethane		ND	2.0										U
Bromoform		ND	2.0										U

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Page 54 of 56



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Client ID:	PBW	Batch ID:	2792	TestNo:	SW8260C	SW5030C		Analysis Date:	11/1/2014	SeqNo:	87051		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromomethane		ND	4.0										U
Carbon disulfide		ND	2.0										U
Carbon tetrachloride		ND	2.0										U
Chlorobenzene		ND	2.0										U
Chlorodifluoromethane		ND	2.0										U
Chloroethane		ND	2.0										U
Chloroform		ND	2.0										U
Chloromethane		ND	2.0										U
cis-1,2-Dichloroethene		ND	2.0										U
cis-1,3-Dichloropropene		ND	2.0										U
Cyclohexane		ND	2.0										U
Dibromochloromethane		ND	2.0										U
Dibromomethane		ND	2.0										U
Dichlorodifluoromethane		ND	2.0										U
Diisopropyl ether		ND	2.0										U
Ethanol		ND	10										U
Ethylbenzene		ND	2.0										U
Freon-114		ND	2.0										U
Hexachlorobutadiene		ND	2.0										U
Isopropylbenzene		ND	2.0										U
m,p-Xylene		ND	4.0										U
Methyl Acetate		ND	2.0										U
Methyl tert-butyl ether		ND	2.0										U
Methylene chloride		4.5	2.0										
n-Butylbenzene		ND	2.0										U
n-Propylbenzene		ND	2.0										U

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Page 55 of 56



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Client ID:	PBW	Batch ID:	2792	TestNo:	SW8260C	SW5030C		Analysis Date:	11/1/2014	SeqNo:	87051		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene		ND	2.0										U
o-Xylene		ND	2.0										U
p-Diethylbenzene		ND	2.0										U
p-Ethyltoluene		ND	2.0										U
sec-Butylbenzene		ND	2.0										U
Styrene		ND	2.0										U
t-Butyl alcohol		ND	10										U
tert-Butylbenzene		ND	2.0										U
Tetrachloroethene		ND	2.0										U
Toluene		ND	2.0										U
trans-1,2-Dichloroethene		ND	2.0										U
trans-1,3-Dichloropropene		ND	2.0										U
Trichloroethene		ND	2.0										U
Trichlorofluoromethane		ND	2.0										U
Vinyl acetate		ND	2.0										U
Vinyl chloride		ND	2.0										U
Surr: 4-Bromofluorobenzene		48		50.00		95.0		80	120				
Surr: Dibromofluoromethane		55		50.00		109		77	131				
Surr: Toluene-d8		51		50.00		102		80	120				

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Page 56 of 56